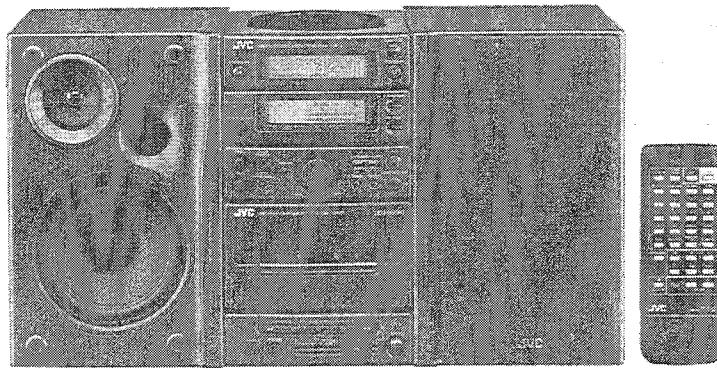


# JVC

## SERVICE MANUAL

### MICRO COMPONENT SYSTEM

### UX-1 B/E/G



**COMPACT  
DISC  
DIGITAL AUDIO**

B..... U.K.
E..... Continental Europe
G..... Germany

### Contents

	Page
1 Safety Precautions . . . . .	2
2 Safety Precautions about UX-1 . . . . .	3
3 Features . . . . .	5
4 Specifications . . . . .	5
5 Instructions (Extract) . . . . .	6
6 Location of Main Parts . . . . .	20
7 Removal of Main Parts . . . . .	22
8 Main Adjustments . . . . .	31
9 Block Diagram . . . . .	36
10 Wiring Connections . . . . .	37
11 Standard Schematic Diagram and Location of P.C. Board Parts . . . . .	38
■ Microcomputer, LCD Display Section	
■ Circuit Diagram . . . . .	38
■ Display P.C. Board / Jack P.C. Board / Door Close Switch P.C. Board / CD Door Open Switch P.C. Board / CD Door Motor P.C. Board / External Antenna Terminal P.C. Board	39
■ CD Control Section Circuit Diagram . . . . .	40
■ CD Control P.C. Board . . . . .	41
■ Tuner P.C. Board /Antenna terminal Board . . . . .	42
■ Tuner Section Circuit Diagram . . . . .	43
■ Function Section Circuit Diagram . . . . .	44
■ Function P.C. Board / Electric Volume P.C. Board / Tone Quality Control Volume P.C. Board . . . . .	45

	Page
■ CD Operation Section Circuit Diagram . . . . .	46
■ CD Operation P.C. Board . . . . .	46
■ Tape Deck, Pre-amplifier / Mechanism Control Section Circuit Diagram . . . . .	47
■ Power Supply / Power Amplifier Section Circuit Diagram . . . . .	48
■ Pre-amplifier P.C. Board / Headphone Jack P.C. Board / Relay P.C. Board / Tape Deck Operation Key Switch P.C. Board . . . . .	49
■ Reel Motor P.C. Board / Actuator Motor P.C. Board / Cam Switch P.C. Board / Mechanism Control P.C. Board / Leaf Switch P.C. Board . . . . .	50
■ Relay Drive P.C. Board / Power Amplifier P.C. Board / Power Supply, Relay P.C. Board . . . . .	51
12 Exploded View of Enclosure Component Parts and Parts List . . . . .	52
CD Receiver Section . . . . .	52
Tape Deck, Amplifier Section . . . . .	52
Cassette Mechanism Section . . . . .	56
CD Mechanism Section . . . . .	58
Speaker System Section . . . . .	59
13 Illustration of Packing and Packing Parts List . . . . .	61
14 Electrical Parts List . . . . .	62

## 1 Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by ( $\Delta$ ) on the Schematic Diagram and Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

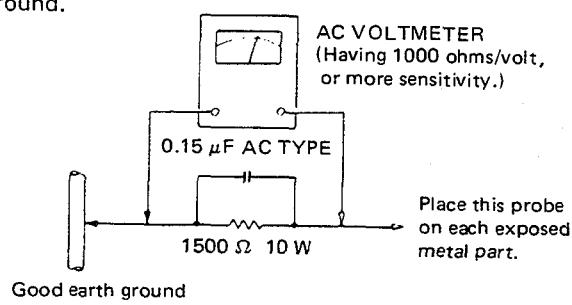
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a  $1,500 \Omega$  10 W resistor paralleled by a  $0.15 \mu\text{F}$  AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).

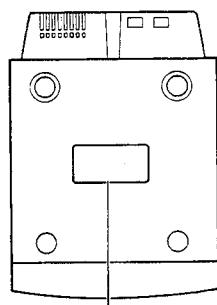


## 2 Safety Precautions about UX-1

### IMPORTANT FOR LASER PRODUCTS PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD door is open. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

### REPRODUCTION OF LABELS AND THEIR LOCATION

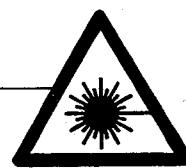
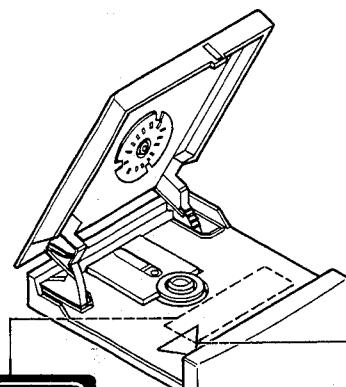


**CLASS 1  
LASER PRODUCT**

Obs:  
Apparaten innehåller laser-  
komponent av högre laserklass  
än klass 1.

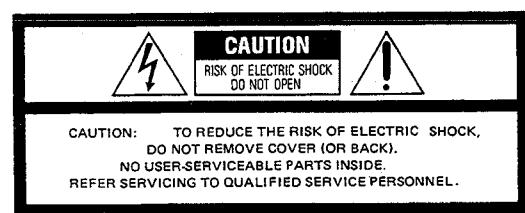
ADVARSEL-Der vil udstråles  
osynlig laserbestrålning når  
apparatet åbnes og aflæs-  
ningsmekanismen frigøres.  
UNDGÅ AT BLIVE UDSET  
FOR LASERBESTRÅLING.

DANGER-Invisible laser  
radiation when open and  
interlock defeated.  
AVOID DIRECT EX-  
POSURE TO BEAM.



VAROITUS! Laite sisältää laserdiordin,  
joka lähetää näkymätöntä silmille  
vaarallista lasersäteilyä.

**WARNING:**  
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT  
EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

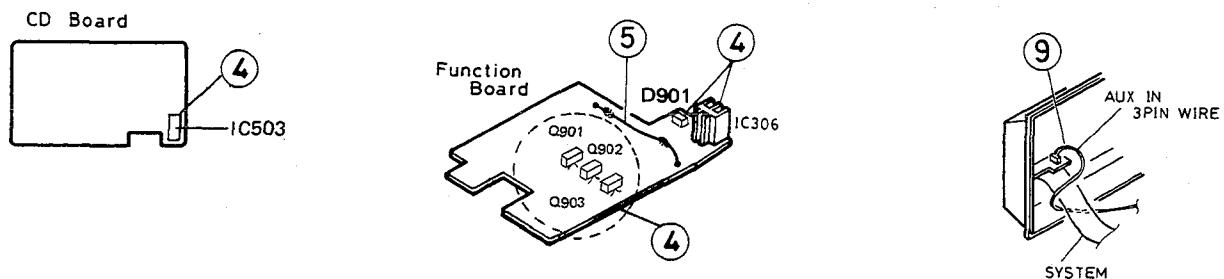


The lightning flash with arrowhead symbol,  
within an equilateral triangle, is intended to  
alert the user to the presence of uninsulated  
“dangerous voltage” within the product’s  
enclosure that may be of sufficient magni-  
tude to constitute a risk of electric shock to  
persons.

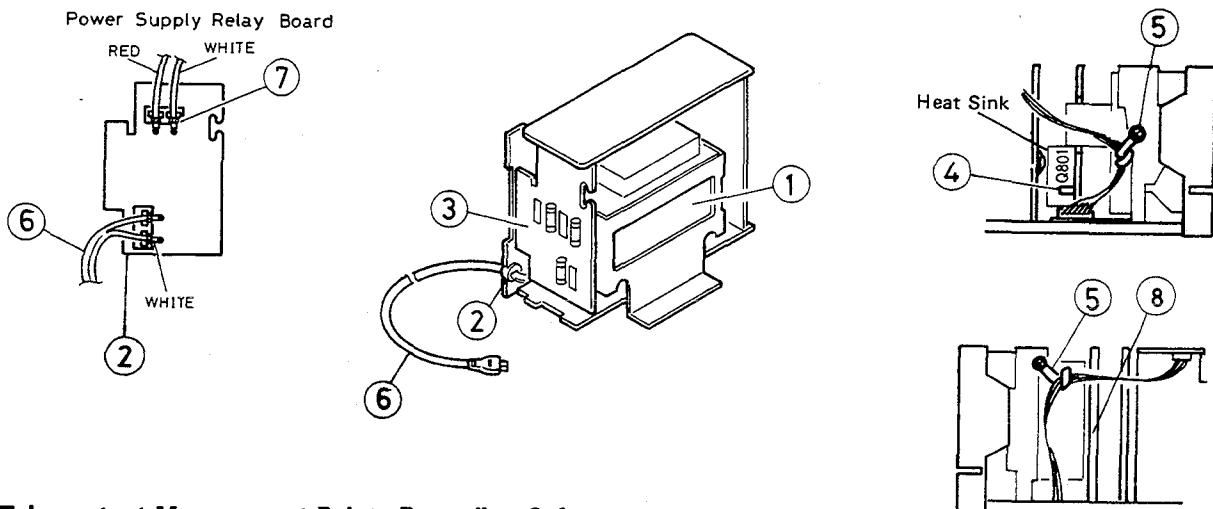


The exclamation point within an equilateral  
triangle is intended to alert the user to the  
presence of important operating and main-  
tenance (servicing) instructions in the litera-  
ture accompanying the appliance.

## &lt; CD, Receiver Sections &gt;



## &lt; Tape Deck, Amplifier Sections &gt;



## ■ Important Management Points Regarding Safety

(Item demanding special safety precautions ... UX-1B/E)

Ref. No.	Description
1	Make sure that the parts number of the power transformer is No. VTP66T6-24ABS (UX-1B) and No. VTP66J6-24A (UX-1E). Make sure that the setscrew is free from any looseness.
2	Strain relief is "4N-4", which must be fitted by the specific HEYCO tool and secures the power cord tightly.
3	The patterns of the primary circuit and adjacent circuits of printed circuit board should be free from round soldering protrusion in order to secure sufficient creeping distance.
4	Since heat is generated from the following parts, these parts should not be located adjacent to the electrolytic capacitor, etc. Tape Deck sections: LC351, heat sink, Q801, D951 CD, Receiver sections: IC306, IC503, heat sink, D901, Q901, Q902, Q903

Ref. No.	Description
5	Wires arranged nearby heating parts must be secured by clamp or bonded not to contact with each other. (See figure.)
6	Coloring to indicate polarity of power cords is as shown in figure. Attachment plug indicator : (S) KP-419C Cord : □ VDED ▷
7	Coloring to indicate polarity of power transformer wires is as shown in figure.
8	Parts on the back side of P.C. board must be secured spacer and bond, etc. (only in CD, Receiver sections)
9	AUX IN 3-pin wire must be arranged outside system wire.

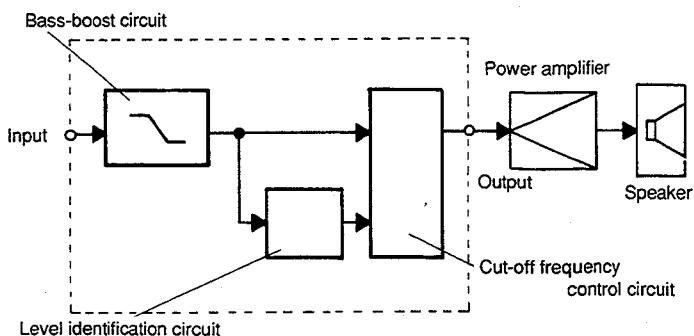
### 3 Features

1. Disc-size micro component system consisting of 4 units, designed for stacked or side-by-side installation.
  - Consists of 4 units; a cassette deck/amplifier and a CD player/tuner, plus a pair of speakers.
2. Newly-developed Active Hyper-Bass circuit for low-frequency sound reproduction and 2-way speakers for superior sound
  - The cut-off frequency is controlled by a level identification circuit to reinforce low-frequency sound.
  - 2-way bass-reflex speakers with 12-cm woofers and 5 cm tweeters.
3. 34-key remote control unit opens and closes the motor-driving CD door, and operates the usual CD, cassette deck and tuner functions
  - Remote control controls power on/off switching, volume control, Active Hyper-Bass on/off switching and a variety of editing functions.
4. Amber-colored large backlit LCD (Liquid Crystal Display)
  - Display includes level meters, 15-tune music calendar, function mode, etc.
5. Multi-function CD player
  - Capable of auto-edit and multi-edit recording and programmed play.
6. U-Turn auto-reverse full-logic mechanism with Dolby® B NR and metal tape compatibility
  - Auto tape select mechanism.
  - Music scan\*\* in forward or reverse direction
7. Automatic source selection
  - Mode selection is not necessary to start the playback of the required source.
8. 2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM (MW/LW)) preset capability
  - Seek/manual tuning.
9. Timer/Clock function
  - Timer on/off with preset volume function.
  - Wake-up volume setting with 5 different levels.
  - Sleep timer can be set for up to 120 minutes.

- \* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.
- \*\* Under license of Staar. S.A. Brussels, Belgium.

- Active Hyper-Bass circuit

Generally, since low-frequency sound is not reproduced satisfactorily by small speakers, a bass-boost circuit is used to reinforce low-frequency sound. However, if the volume is turned up with bass-boost reinforcement, low-frequency sound is easily saturated which results in distortion. As shown in the diagram, the Active Hyper-Bass circuit incorporates a control circuit in which the cut-off frequency of low-frequency sound is varied in the bass-boost circuit, with the cut-off frequency controlled by instructions from a level identification circuit. With these circuits, when the volume increases, low-frequencies are sharply attenuated, which prevents distortion caused by the saturation of low frequencies.



### 4 Specifications

#### CD player section

Type	: Compact disc player
Signal detection	: Non-contact optical pickup (semiconductor laser)
Number of channels	: 2 channels (stereo)
Frequency range	: 20 Hz - 20,000 Hz
Dynamic range	: 76 dB
Signal-to-noise ratio	: 76 dB
Total harmonic distortion	: 0.1 %
Wow & flutter	: Less than measurable limit
Radio section	
Frequency ranges	: FM 87.5 - 108 MHz AM: (MW) 522 - 1,629 kHz (LW) 144 - 288 kHz
Antennas	: Loop antenna for AM (MW/LW) Ext. antenna terminal for FM (75 Ω)
Tape deck section	
Track system	: 4-track 2-channel stereo
Motor	: Electronic governor DC motor (capstan x 1, reel x 1)
Heads	: Hard permalloy head for recording/playback, 2-gap ferrite head for erasure (Combination head)
Frequency response	: 50 - 15,000 Hz (with metal tape)
Wow and flutter	: 0.15 % (WRMS)
Fast wind time	: Approx. 120 sec (C-60 cassette)

#### Speaker section (each unit)

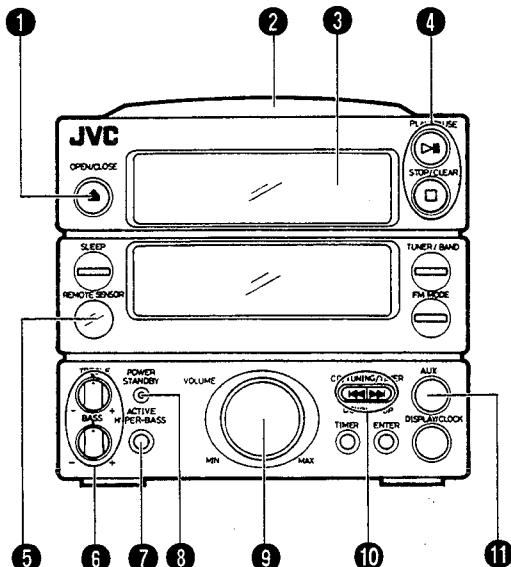
Speaker (Impedance)	: 12 cm x 1 (4 Ω) 5 cm x 1 (6 Ω)
Dimensions	: 159.5(W) x 250(H) x 198(D) mm
Weight	: Approx. 2.2 kg
General	
Power output	: Max. 28 W (14 W + 14 W) at 4 Ω 22 W (11 W + 11 W) at 4 Ω (10 % THD)
Input jacks	: AUX IN (300 mV/47 kΩ)
Output jacks	: Speaker x 2 (matching impedance 4 Ω - 16 Ω) Headphones (0-30 mW/32 Ω) (matching impedance 16 Ω - 1 kΩ)
Power supply	: AC 240 V, 50 Hz (UX-1B) AC 230 V, 50 Hz (UX-1E/G)
Power consumption	: 60 W (with POWER SW ON) 5 W (with POWER SW STANDBY)
Dimensions	: 458(W) x 258(H) x 222(D) mm including knobs
Weight	: Approx. 9.1 kg
Accessories provided	: Remote control unit (RM-RX1001) Battery "R03" x 2 (for the remote control) FM feeder antenna x 1 Loop antenna stand x 1 Speaker cord x 2 Antenna adapter x 1

Design and specifications are subject to change without notice.

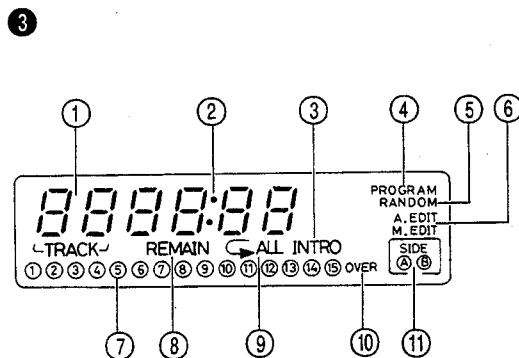
## 5 Instructions (Extract)

### NAMES OF PARTS AND THEIR FUNCTIONS

#### CD player/General section

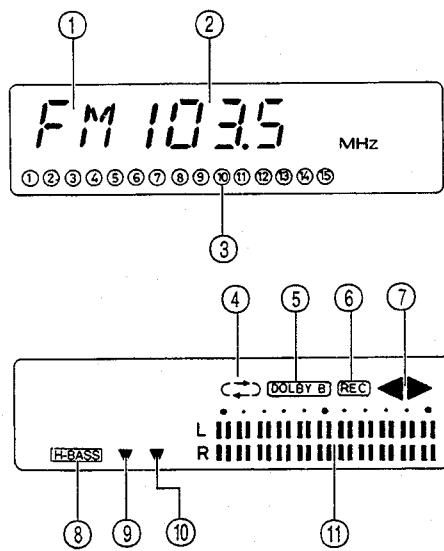
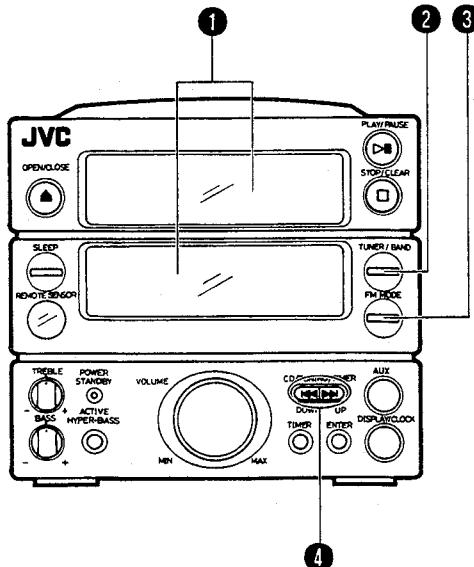


- ① CD door OPEN/CLOSE button (▲)  
Press this button after setting the POWER button to ON.
- ② CD door
- ③ Display window
  - ① Function/Track number display
  - ② Playback time display
  - ③ INTRO scan indicator
  - ④ PROGRAM mode indicator
  - ⑤ RANDOM playback indicator
  - ⑥ EDIT recording mode indicator
  - ⑦ Music calendar display
  - ⑧ REMAIN indicator
  - ⑨ Repeat playback indicator
  - ⑩ OVER indicator
  - ⑪ SIDE A/B indicator



- ④ CD operation buttons
  - PLAY/PAUSE button (▷ II):  
Press to play a disc and to stop temporarily.
  - STOP/CLEAR button (□):  
Press to stop playing a disc and to cancel programmed playback.  
This also sets the CD mode.
- ⑤ Remote sensor section
- ⑥ TREBLE•BASS controls
- ⑦ ACTIVE HYPER-BASS button
- ⑧ POWER STANDBY indicator
- ⑨ VOLUME control
- ⑩ CD search buttons (◀◀, ▶▶)  
Press to locate the beginnings of tunes and to start forward and reverse search operations.
- ⑪ AUX button

#### Tuner/Deck section



- ① Display window
- ② Band indicator (FM/AM)
- ③ Radio frequency display
- ④ Preset station display
- ⑤ Reverse mode indicator (↔ / ↔/↔)
- ⑥ DOLBY B NR indicator (DOLBY B)
- ⑦ Recording indicator (REC)
- ⑧ Tape direction indicator (◀, ▶)
- ⑨ Active Hyper-Bass indicator (H-BASS)
- ⑩ STEREO indicator
- ⑪ MONO indicator
- ⑫ Level indicator
- ⑬ TUNER/BAND button
  - Press to select the tuner mode.
  - Press to select the band (FM/AM (MW/LW)).
- ⑭ FM MODE button
- ⑮ TUNING button (UP/DOWN)
- ⑯ Cassette holder
- ⑰ PHONES jack (3.5 mm dia. stereo mini plug)
 

Connect headphones (impedance 16 Ω - 1 kΩ) to this jack. The speakers are automatically switched off when headphones are connected.
- ⑱ POWER button
 

Press to switch the power on or off.
- ⑲ DOLBY NR button
- ⑳ REVERSE MODE button
- ㉑ Cassette operation buttons
  - ◀ : Press to fast wind the tape from right to left/Music scan.
  - ▶ : Press to play back the tape in the reverse direction.
  - : Press to stop the tape and to cancel the Multi edit mode.  
This also sets the TAPE mode.

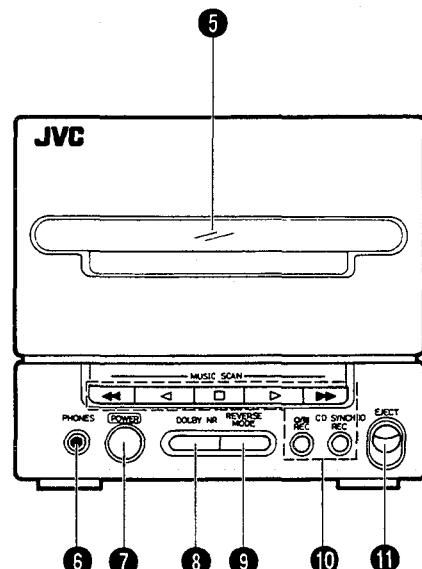
▷ : Press to play back the tape in the forward direction.

▶ : Press to fast wind the tape from left to right/Music scan.

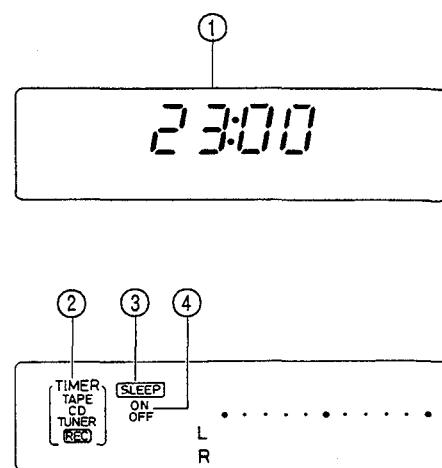
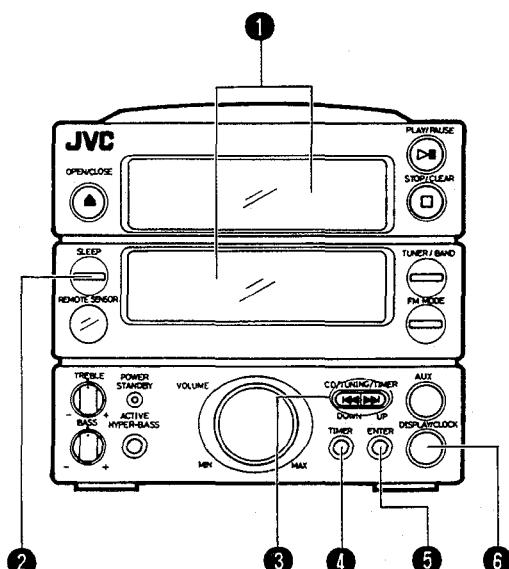
O/I REC : Press to set the unit to the record or record-pause mode.

CD SYNCHRO REC: Press to start CD edit recording/synchro recording.

㉒ EJECT button



### Timer/Clock section



- ① Display window
  - ① Time display
  - ② Timer mode indicator
  - ③ SLEEP indicator
  - ④ Timer indicator (ON/OFF)
- ② SLEEP button
- ③ TIMER buttons (UP/DOWN)
 

Set the time or timer setting.
- ④ TIMER button
 

Set to timer setting or timer ON/OFF (to reset or cancel the timer).
- ⑤ ENTER button
 

Set the time or timer setting.
- ⑥ DISPLAY/CLOCK button
 

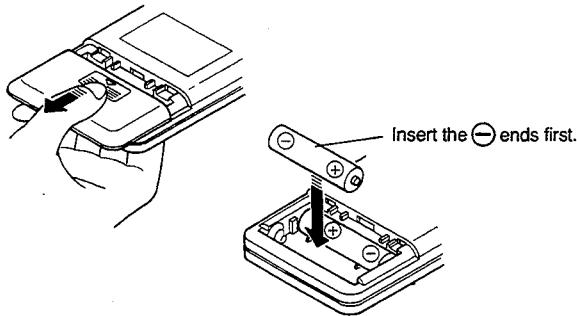
Set the time or display the current time.

## REMOTE CONTROL UNIT

### Preparation before use

- **Installing batteries in the remote control unit**

1. Remove the battery cover from the back of the remote control unit.
2. Insert two "R03" size batteries.
3. Insert the batteries with the  $\oplus$  and  $\ominus$  terminals matching the indication inside the battery compartment.



3. Replace the cover.

- **Battery replacement**

When the remote control operation becomes unstable or the distance from which remote control is possible becomes shorter, replace the batteries with new ones.

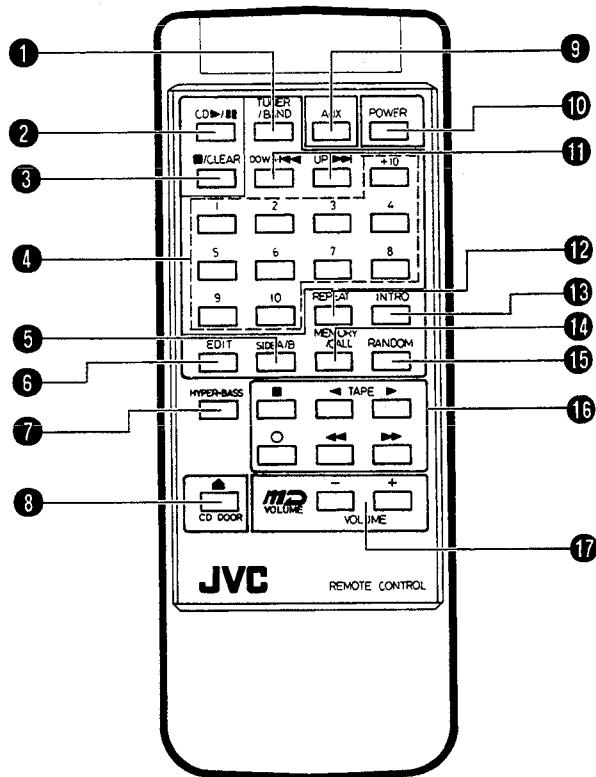
### Using the remote control unit

To use the remote control unit, point it at the REMOTE SENSOR and press the buttons gently and firmly. Remote control operation is possible within about 7 m (approx. 23 ft). However, since the remote control range is less when the unit is used at an angle, use directly in front of the REMOTE SENSOR, as far as possible.

Do not expose the REMOTE SENSOR to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the REMOTE SENSOR and the remote control unit.

The following operations can be performed using the remote control unit.

- Check the functions of the operation buttons carefully and operate them correctly.

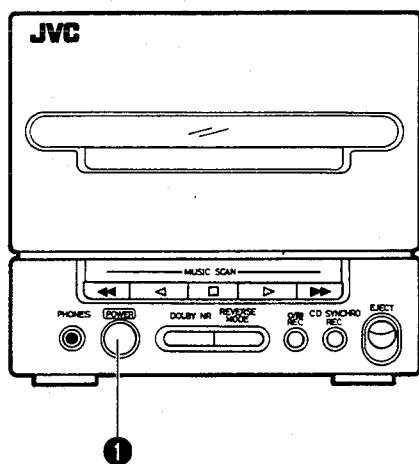


- ① TUNER/BAND button
- ② CD ▶/II: CD mode/play/pause button
- ③ ■/CLEAR: Stop/clear button
- ④ Track (tune) number buttons (No. 1 - No. 10, +10)  
Preset station buttons (No. 1 - No. 10, +10)
- ⑤ SIDE A/B button
- ⑥ EDIT button
- ⑦ HYPER-BASS button
- ⑧ CD DOOR button ( $\Delta$ )
- ⑨ AUX mode button
- ⑩ POWER button
- ⑪ CD search/UP and DOWN button ( $\blacktriangleleft$ ,  $\triangleright$ )  
• To scan to the beginning of a tune and to start forward or reverse search when playing a CD.  
• Tuning when listening to radio broadcasts.  
(Also to set the time and timer.)
- ⑫ REPEAT button
- ⑬ INTRO button
- ⑭ MEMORY/CALL button
- ⑮ RANDOM button
- ⑯ Cassette operation buttons  
■ : Stop button  
◀ : Play button (reverse direction of tape)  
▶ : Play button (forward direction of tape)  
○ : Record/Record-pause button  
◀◀ : Fast wind (from right to left)/Music scan button  
▶▶ : Fast wind (from left to right)/Music scan button
- ⑰ VOLUME buttons  
- : Use to decrease the volume.  
+ : Use to increase the volume.

## PLAYING COMPACT DISCS

**Playing an entire disc ...** The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

Operate in the order shown



- ① Set to on.
- ② Set to the CD mode.
  - When a CD is first loaded, the total number of tracks (tunes) and total playing time are displayed.
- ③ Press to open the CD door.
- ④ Load a disc with the label side facing up. Press to close the CD door. (The door can be closed by pressing the  $\triangleright \text{II}$  button.)

### To stop play

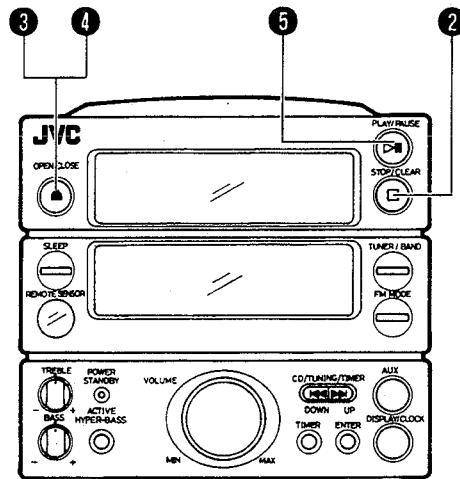
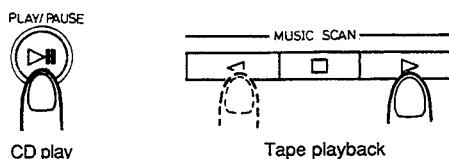
- **To stop in the middle of a disc**  
During playback, press the STOP/CLEAR button to stop play.



- The total number of tracks (tunes) and total playing time are displayed.
- **To stop a disc temporarily**  
Press the PLAY/PAUSE button to stop play temporarily. When pressed again, play resumes from the point where it was paused.

### Automatic source selection

- Simply press the play button corresponding to the required source to listen to a CD or tape.



- ⑤ Press to start play.  
● As tunes are played, their track numbers go out one by one.

#### Note:

When the CD door is closed by pressing the  $\triangleright \text{II}$  button, the CD starts as soon as the CD door is closed.

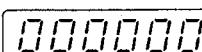
Automatic source selection allows you to automatically select the source corresponding to the button pressed. (The remote control unit also has this automatic source selection function.)

#### Cautions:

- To change discs, press the STOP/CLEAR button; check that the disc has stopped rotating completely before unloading it.
- Since the disc cannot be unloaded when the power is set to STANDBY, switch the power on and press the OPEN/CLOSE button to unload the disc.

#### Notes:

- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.  
In such a case, check the disc and insert again after cleaning the disc or turning it over.



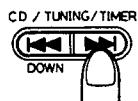
- **Do not use the unit at excessive high or cold temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).**
- After playback, unload the disc and close the CD door.
- If mistracking occurs during play, lower the volume.
- Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations.

## Skip playback

- During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played back or the previous tune; when the beginning of the required tune has been located, play starts automatically.

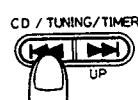
### To listen to the next tune ...

Press the **►** button once to skip to the beginning of the next tune.



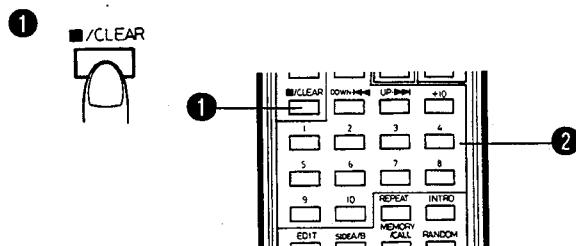
### To listen to the previous tune ...

Press the **◀** button to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune.



## Direct access playback (using the remote control)

- Pressing any of the track number buttons will start play from the beginning of the designated tune, without your having to press the CD **►/■** button. (This function cannot be used during programmed play.)



- Press the **■/CLEAR** button to set to the CD mode.
- Designate the required tune using the track number buttons.
  - To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number.
  - To designate tune number 11 or higher, press the **+10** button the required number of times, then a track number button. (Example: To designate the 25th tune, press the **+10** button twice, then press track number button 5.)

\* **+10** button:  
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

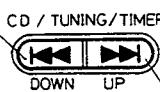
**To skip to another tune during play**  
When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

## Search playback

### (to locate the required position on the disc)

- The required position can be located using fast-forward or reverse search while playing a disc.

Keep pressing for fast-reverse search

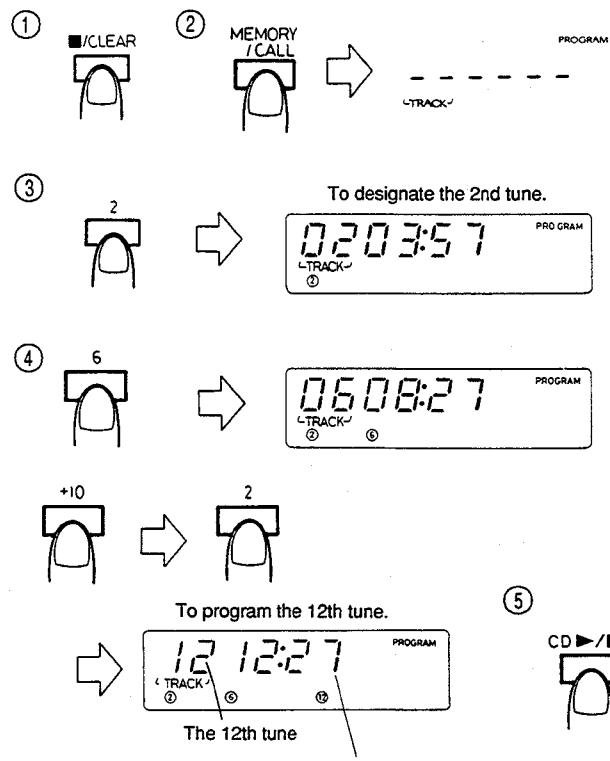


Keep pressing for fast-forward search

- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

## Programmed play (using the remote control)

- Up to 20 tunes can be programmed to be played in any required order.  
The total playing time of programmed tunes is displayed (up to 99 minutes, 59 seconds).  
(Example: When programming the 2nd tune to be played first, and the 6th tune next, then the 12th tune, etc.)



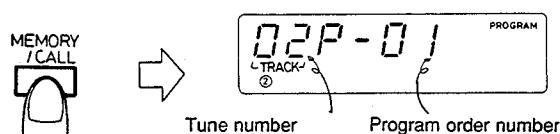
- Press the **■/CLEAR** button.
- Press the **MEMORY/CALL** button to set to the programming mode.
- Press to designate the required track number.
- Designate the remaining tunes by pressing the track number buttons.
- Press the **CD ►/■** button when programming is completed. Programmed playback starts.

**To clear the programmed tunes ...**

Press the ■/CLEAR button before playing a disc. During programmed playback, press this button twice. When the CD door is opened, programmed tunes are cleared automatically.

**To confirm the details of a program...**

When the MEMORY/CALL button is pressed, the tunes making up the program are displayed in programmed order.

**Repeat play (using the remote control)**

Press the REPEAT button before or during play. A single tune or all the tunes can be repeated.

Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from a single tune (  $\curvearrowleft$  ), to all the tunes (  $\curvearrowleft$  ALL ), to the clear mode, in this order.

**Random playback (using the remote control)**

When the RANDOM button is pressed, all tunes on a disc are played once, in random order.

**INTRO scan operation  
(using the remote control)**

- Simply press the INTRO scan button to play the first 15 seconds of each tune. The operation is released after playing the introductions of all tunes or all programmed tunes.
- If the INTRO scan button is pressed in the middle of a tune, the intro scan operation will start from the next tune.
- To release the intro scan mode, press the INTRO scan button again and normal playback (or programmed playback) will resume.

**Notes:**

- If the total playing time of the programmed tunes exceeds 99 minutes 59 seconds, the total playing time indication will go out.
- Programming 21 or more tunes is impossible.
- When a disc with 16 or more tunes is loaded, the "OVER" indicator will appear.
- When performing timer playback in the order of "Programmed play", step ⑤ above is not required.

- Repeat playback of a single tune (  $\curvearrowleft$  )**  
The tune being played back will be heard repeatedly.

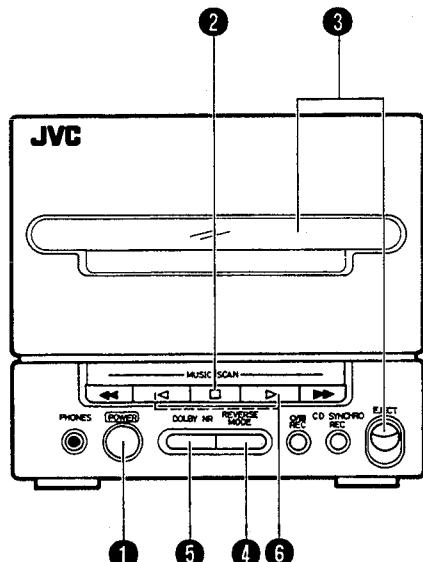


- Repeat playback of all tunes (  $\curvearrowleft$  ALL )**  
When playing back an entire disc or programmed tunes, all tunes or the programmed tunes will be heard repeatedly.



**CASSETTE PLAYBACK**

Operate in the order shown



- ① Set to on.
- ② Set to the TAPE mode.
- ③ Load a cassette with side A facing out.
- ④ Select the reverse mode (  $\leftarrow$  /  $\rightarrow$  /  $\leftrightarrow$  ).
- ⑤ Set the DOLBY NR switch as required.
- ⑥ Press to start playback.
- With automatic source selection, playback can be started from the deck.
- When the tape is played back with the reverse mode set to the  $\leftarrow$  (single side play) or  $\rightarrow$  (both side play) mode, the tape stops automatically at the end of tape after playing one side or both sides.

**Music Scan**

- The beginning of the current tune or the next tune can be located using the music scan facility.
- ① Press the  $\triangleright$  or  $\triangleleft$  button for tape playback.
- ② Press the  $\blacktriangleright\blacktriangleleft$  or  $\blacktriangleleft\blacktriangleright$  button for music scan.
- ③ When music scanning is completed, playback will start automatically.
- To skip two tunes or more, repeat the above steps ② and ③.

**Notes:**

With the following types of tape, the Music Scan mechanism may not operate correctly. This is not a malfunction; use the Music Scan facility only with suitable tapes.

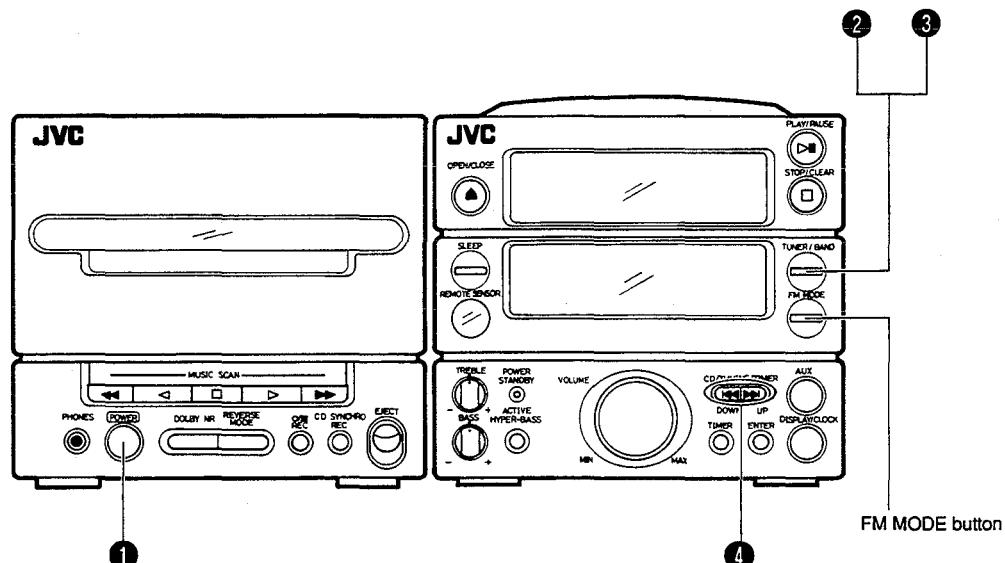
- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portion during tunes.
- Tapes with short non-recorded sections.
- Tapes with high-level noise or hum between tunes.

		● To the start of the next tune	● To the start of the tune being played back
(Forward ( $\triangleright$ ) direction playback)			
(Reverse ( $\triangleleft$ ) direction playback)			

One of the two tape direction indicators blinks during music scanning.

## RADIO RECEPTION

Operate in the order shown.



- ① Set on.
- ② Press the TUNER/BAND button; a band and radio frequency will be shown in the display.
- ③ Select the band (FM or AM (MW/LW)).
- ④ Tune to the required station.

### FM MODE button

#### STEREO:

Set to this position when listening to or recording an FM stereo broadcast.

#### MONO:

Set to this position when FM stereo reception is noisy.

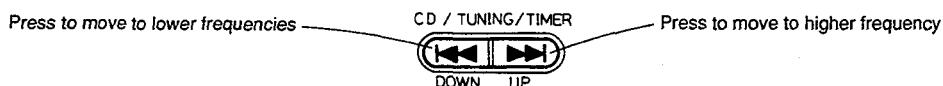
- **Seek tuning**  
Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.

In AM operation, the frequency moves continuously from the MW to the LW band and vice versa.

- **Manual tuning**

Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 50 kHz for FM and 9 kHz for AM (MW/LW).

In AM operation, the frequency moves continuously from the MW (522 – 1,629 kHz) to the LW (144 – 288 kHz) band and vice versa.



### Using the antennas

**FM:** Connect the provided FM feeder antenna (see page 8).

**AM (MW/LW):** Adjust the position of AM (MW/LW) loop antenna.

### BEAT CUT switch

When beats are produced while listening to a broadcast or recording, activate the BEAT CUT switch so that the beats are eliminated or minimized.

#### Notes:

- When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND button is pressed, the same station will be heard.

## Presetting stations (using the remote control unit)

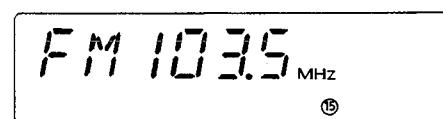
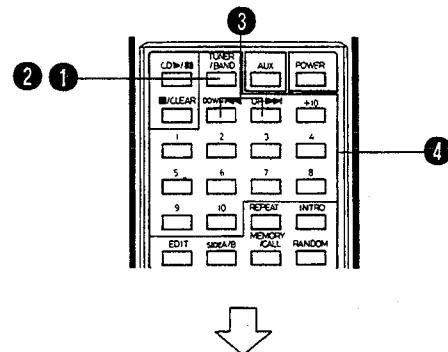
15 stations in each band (FM and AM (MW/LW)) can be preset as follows:

- Example (when presetting an FM station broadcasting on 103.5 MHz to preset button "15")

- ① Press the TUNER/BAND button.
- ② Select the FM band using the TUNER/BAND button.
- ③ Tune to the required station.
- ④ Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been preset.)
- Repeat the above procedure for each of the other stations, using a different preset button each time..
- Repeat the above procedure for the AM (MW/LW) band.
- To change preset stations  
Perform step ④ above after tuning to the required station.

### Notes:

- The previous preset station is erased when a new station is preset as the new station's frequency replaces the previous frequency in memory.
- When listening to an AM (MW/LW) broadcast, noise may be heard if the remote control is used.
- All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 24 hours. In such cases, preset them again.



## Preset tuning (using the remote control unit)

- The stations must be preset before this operation can be performed.

- ① Press the TUNER/BAND button
- ② Select the band (FM or AM (MW/LW)) using the TUNER/BAND button.
- ③ Press the required preset station buttons (No.1 – No.10, +10).
- The preset station number and frequency corresponding to the button pressed are shown.

## RECORDING

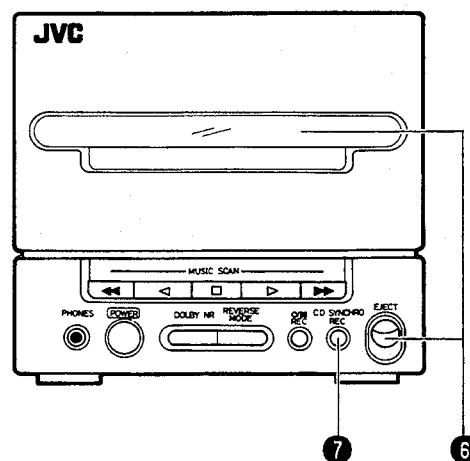
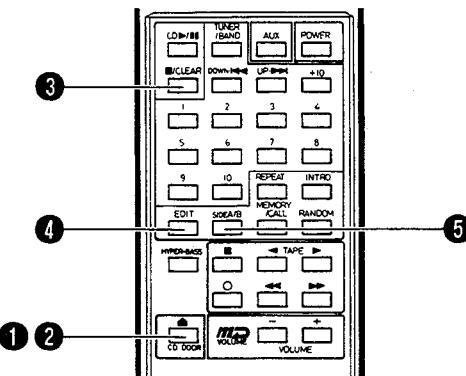
- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

## CD edit recording (for CDs with up to 20 tunes)

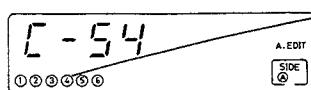
- By checking the total playing time of the CD, a microcomputer in the unit automatically calculates the optimum length (recording time) of the tape to be used, displays the required tape length, and divides the tunes on the disc into two groups to be recorded on the two sides of the tape so as to minimize tape waste.

- ① Press to open the CD door
- ② Load a disc and press to close the CD door.
- ③ Set to the CD mode.

## Operate in the order shown

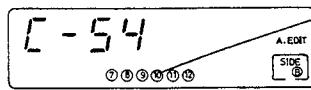


① Press the EDIT button once.



The tune numbers recorded on side A appear.

⑤ Press the SIDE A/B button.



The tune numbers recorded on side B appear.

⑥ Insert a cassette with a suitable length (recording time) with side A facing out.  
• The tape length can be set from the remote control.  
(See below.)  
⑦ Press the CD SYNCHRO REC button to start CD edit recording.  
• Recording starts in the forward direction (on the side facing out).  
• During edit recording, the leader tape section (approx first 10 sec.) is wound automatically and then recording starts. The reverse mode is set to mode automatically.

- The tape stops automatically when the CD has been played.
- **To change the tape length (recording time)**  
When the EDIT button is pressed with a CD loaded, the tape length required to record the entire disc is displayed (C-46, C-54, C-60, C-74 or C-90). At this time, the displayed tape length can be changed by pressing the track number buttons.

#### Example: To change to C-50

Press the +10 button four times, and within 10 seconds, press the 10 button.

When the length of the tape is changed, some of the tunes that were to be recorded on side A may be indicated as to be recorded on side B or vice versa, according to the tape length specified.

Depending on the tape length specified, some tunes may not be recorded on the tape. Set the tape length (recording time) so that the entire disc can be recorded.

#### • When editing a disc with 16 to 20 tunes

CD editing can be used to record discs containing up to 20 tunes, however, the music calendar shows up to only 15 tunes.

As the 16th to 20th tunes will not appear in the music calendar display (the "OVER" indicator will light), be sure to check the tunes you have recorded after completing editing.

#### • Set the DOLBY NR as required. The **DOLBY B** indicator lights.

#### Note:

The optimum sound quality will not be obtained if different DOLBY NR switch settings are used during recording and playback.

#### Notes:

- When a disc with 21 tunes or more is loaded, "C--" will appear in the display. In such a case, set the required tape length using the track number buttons on the remote control.
- In CD edit recording blanks of approx. 4 seconds will automatically be left between tunes on the recorded tape.

#### When automatic spacing between tunes is not required ...

Perform the following.

1. Press the PLAY/PAUSE button of the CD player twice. The CD Player enters the pause mode.
2. Press the CD SYNCHRO REC button to start recording.

#### Note:

- Depending on the disc used, blanks of a specified length may be left between tunes

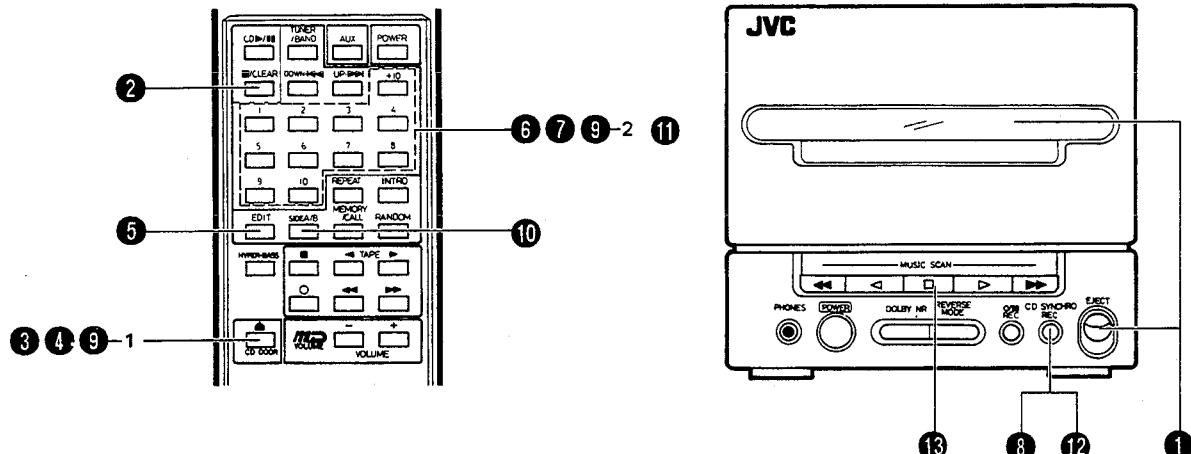
#### • After use

Press the /CLEAR button to release the CD edit recording mode. (The CD edit recording mode is also released when the CD door is open.)

### CD multi edit recording (to record only the required tunes from more than one disc)

- Example: 7-tune edit recording from two CDs containing 12 tunes and 9 tunes respectively, onto a C-46 tape.

Operate in the order shown



① Load a blank cassette with side A facing out.

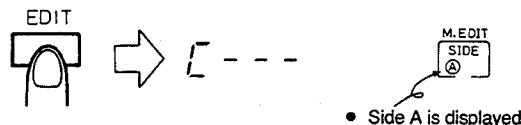
- The example shows C-46.

② Set to the CD mode.

③ Press to open the CD door.

④ Load a disc and close the CD door.

⑤ Press the EDIT button twice.



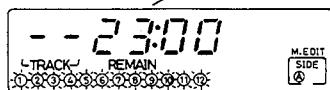
⑥ Input the tape length (C-46).

• To set to C-46, press the +10 button four times and press the 6 button within 10 sec.



C - 46

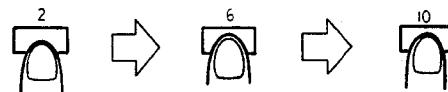
• Half the running time of the tape is displayed (tape remaining time).



• The programmable tunes blink.

⑦ Input the tunes to be recorded with the tune number buttons.

• Example: Programming tune numbers 2, 6, 10, in this order, to be recorded from the first disc.



• Tape remaining time 8 minute 02 sec.



• Lights

⑧ Press the CD SYNCHRO REC button to start edit recording.

- First, the deck winds past the leader tape and then recording starts.

- The reverse mode is automatically set to .



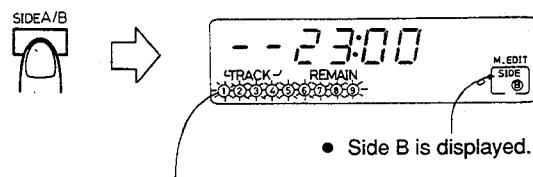
⑨ When the edit recording of first disc is completed, replace the disc and program the tunes to be recorded from the second disc.

- Example: Programming tune numbers 1, 3, 4, 7, in this order, to be recorded from the second disc.



- When tune number 1 is input, the indicator shows that only tune number 8 can be recorded within the tape remaining time so that other tunes cannot be programmed to be recorded.

⑩ Press the SIDE A/B button.



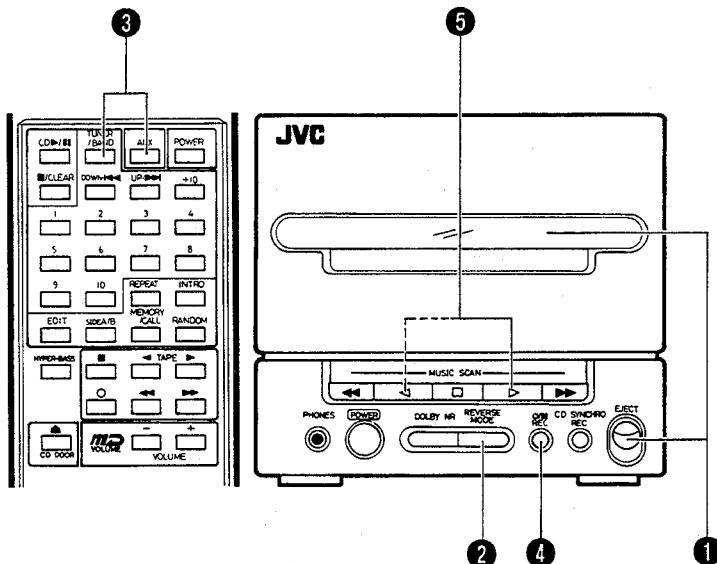
- The tunes that can be programmed to be recorded on side B blink.

- ⑪ Program the rest of tunes.
- ⑫ Press the CD SYNCHRO REC button to start recording. The tape is automatically reversed when side A has been recorded and recording on side B will start after winding past the leader tape.
- ⑬ Press the ■ (stop) button of the cassette deck.
  - The multi edit recording mode is released.

- To change the tape length or programmed tunes.... Press the ■/CLEAR button once to release the multi edit recording mode, then press the EDIT button twice.
- When there is insufficient remaining time on the tape, the tunes that cannot be recorded disappear from the music calender.

### Recording from the radio or an external source connected to the AUX terminals

Operate in the order shown



- ① Load a cassette with side A facing out.  
(Wind past the leader tape before starting recording.)
- ② Select the required reverse mode (  $\rightarrow$  or  $\leftarrow$  ).
- ③ Select the source to be recorded.  
TUNER: Press the TUNER/BAND button. Tune to the required station.  
AUX: Press the AUX button.
- ④ Press the O/I REC button (recording-pause mode).
  - The tape direction indicator showing the side to be recorded blinks.
  - The function switch is locked and its position cannot be changed.
- ⑤ Press to start recording.

- To stop recording temporarily, press the O/I REC button. To resume recording, press the  $\rightarrow$  or  $\leftarrow$  button corresponding to the tape direction indicator which is blinking.

#### Note:

- Recording cannot be performed on the side the tape direction indicator of which is not lit.

### Erasing

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.

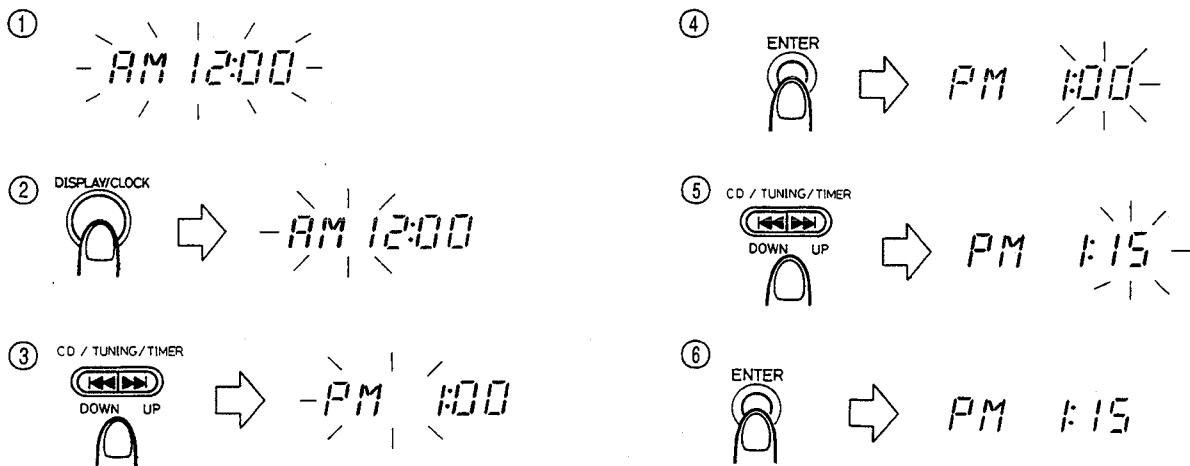
To erase a tape without making a new recording...

Press the □ (stop) button to set to the TAPE mode, then perform recording.

**CLOCK ADJUSTMENT**

**Setting the current time**  
(when the UX-1 is used for the first time)

(Example: to set the clock to 1:15 PM.)



- ① Connect the AC power cord; "0:00" will blink in the display.
  - Set to the standby mode; do not press the POWER button.
- ② Press the DISPLAY/CLOCK button for 2 sec. or more: the hour's digits will blink.
- ③ Set to 13:00 by pressing the TIMER buttons (UP/DOWN).
- ④ Press the ENTER button; the minute's digits will blink.
- ⑤ Set to 13:15 by pressing the TIMER buttons (UP/DOWN).
- ⑥ Press the ENTER button; the time will light continuously in the display.
  - To set to the nearest second...  
Press the ENTER button when you hear the time signal from a TV or radio.

- When the power cord is plugged in again after being disconnected or power is restored after a power failure, "0:00" will blink in the display. Set the current time again.
- Press the DISPLAY/CLOCK to display the current time during CD play, tape play or radio reception. The current time will be displayed for 10 sec. after which the display returns to the previous mode.

**Notes:**

- Before performing timer recording or playback, it is necessary to set the current time.
- It is recommended to set the current time with the power switch set to STANDBY so that the current display mode is maintained.

**TIMER OPERATIONS****Timer recording**

- The current time must be set correctly before you set timer recording.
- Make sure that the erase protection tabs of the cassette have not been broken off.

**Operations**

1. Set the POWER button to ON.
2. Load a cassette.
  - Insert the cassette with the side to be recorded facing out.
  - Set the reverse mode button to "↔" or "↔" and set the DOLBY NR button as required.
3. Set the timer start and stop times, set the timer recording mode, then set the required volume, in this order. (Refer to "Setting the timer" on page 52.)
  - Set the timer about a minute before the broadcast to be recorded is scheduled to start.
  - Set the TIMER mode button to TIMER/TUNER REC.
4. Tune to the station to be recorded. (Refer to page 35.)
5. Set the POWER button to STANDBY.

- Timer recording will start at preset start time and the power will be switched off at preset stop time. When timer recording is completed, the timer mode is switched to the "TUNER" (timer reception of broadcast) mode.

**To cancel timer operation**

Press the TIMER button so that the timer mode display goes out.

If you do this, timer recording will not start at the timer start time.

**Notes:**

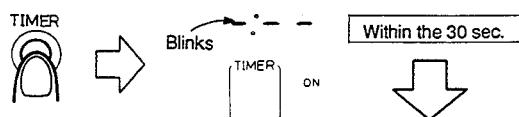
Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.

- After setting the timer start and stop times, check that the unit is tuned to the required frequency.
- When the power cord is disconnected or there is a power failure, timer settings will be erased from memory. If this happens, set the current time and perform the timer setting again.

## Setting the timer

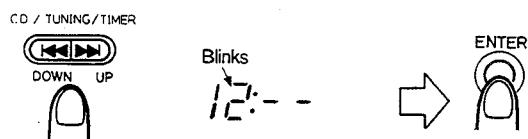
- The current time must be set before the timer can be used.

① Press the TIMER button.

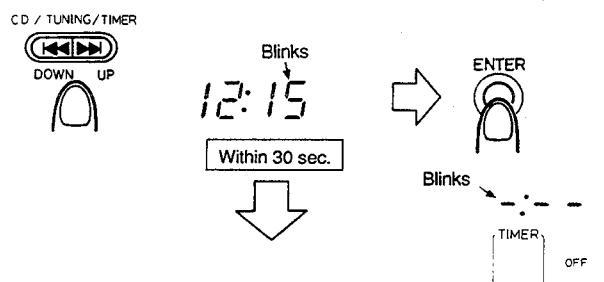


② Set the start time

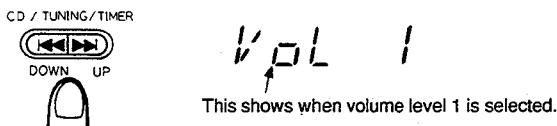
(Example: when the timer start time is set to 12:15)  
① Adjust the hours.



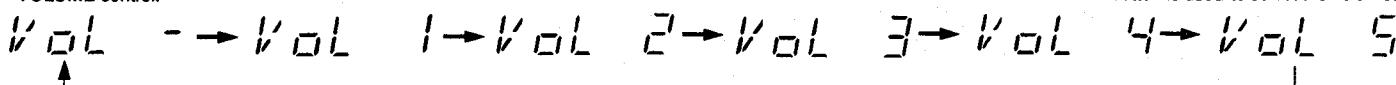
② Adjust the minutes.



⑤ Set the volume.



The playback level is determined by the position of VOLUME control.



The volume decreases to zero at the timer start time, and the sound fades in. (Volume level 5 is approximately the same as when the VOLUME control is set to its center position.)

- The unit enters the previously engaged mode and timer setting is complete.

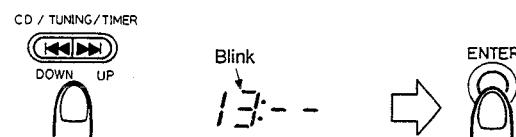
### To check the timer setting

- Press the TIMER button.
- Press the ENTER button to check the timer mode.
- When the previous engaged mode is displayed, timer setting has been completed.

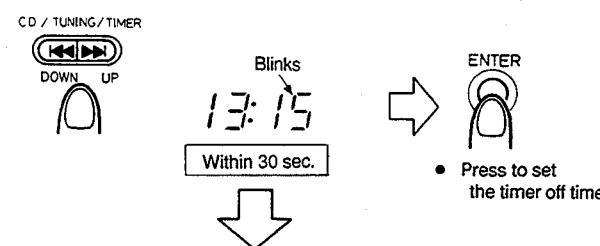
③ Set the stop time

(Example: when the timer stop time is set to 13:15.)

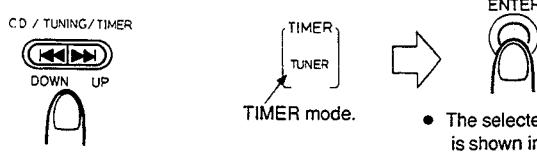
① Adjust the hours.



② Adjust the minutes.



④ Select the TIMER mode.



When the UP button is pressed to select the timer mode, the mode changes from the TUNER (timer reception of a broadcast), CD (timer playback of a CD), TAPE (timer playback of a tape), to TUNER/REC (timer recording of a broadcast), in this order.



When the UP button is used to select the volume.

### Notes:

- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.
- When the timer is set, "-:-" in the display is replaced by the input digits.
- When the timer stop time is not set, the timer operates for 2 hours and then the unit is switched off. To continue listening after the timer stop time, display the timer stop time, change the hours digits to ":" using the UP button and press the ENTER button.

## 6 Location of Main Parts

### ■ CD · Receiver Sections

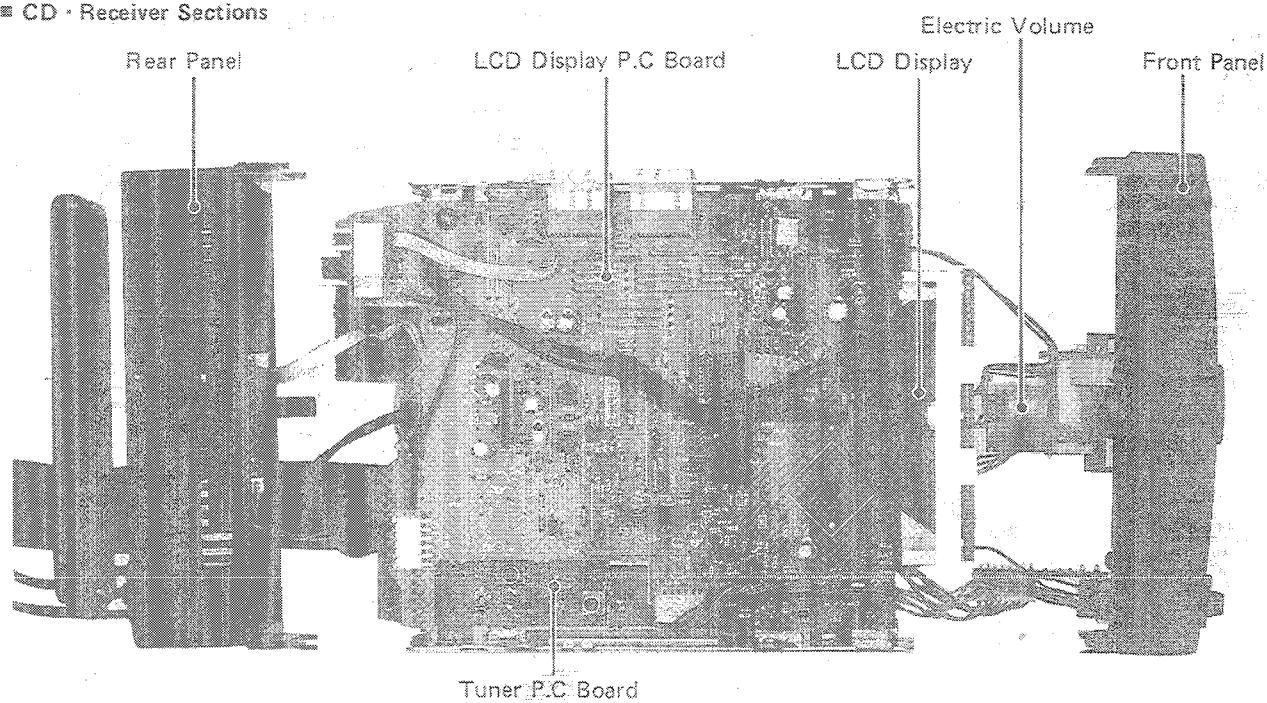


Fig. 6-1

### ■ CD Player View

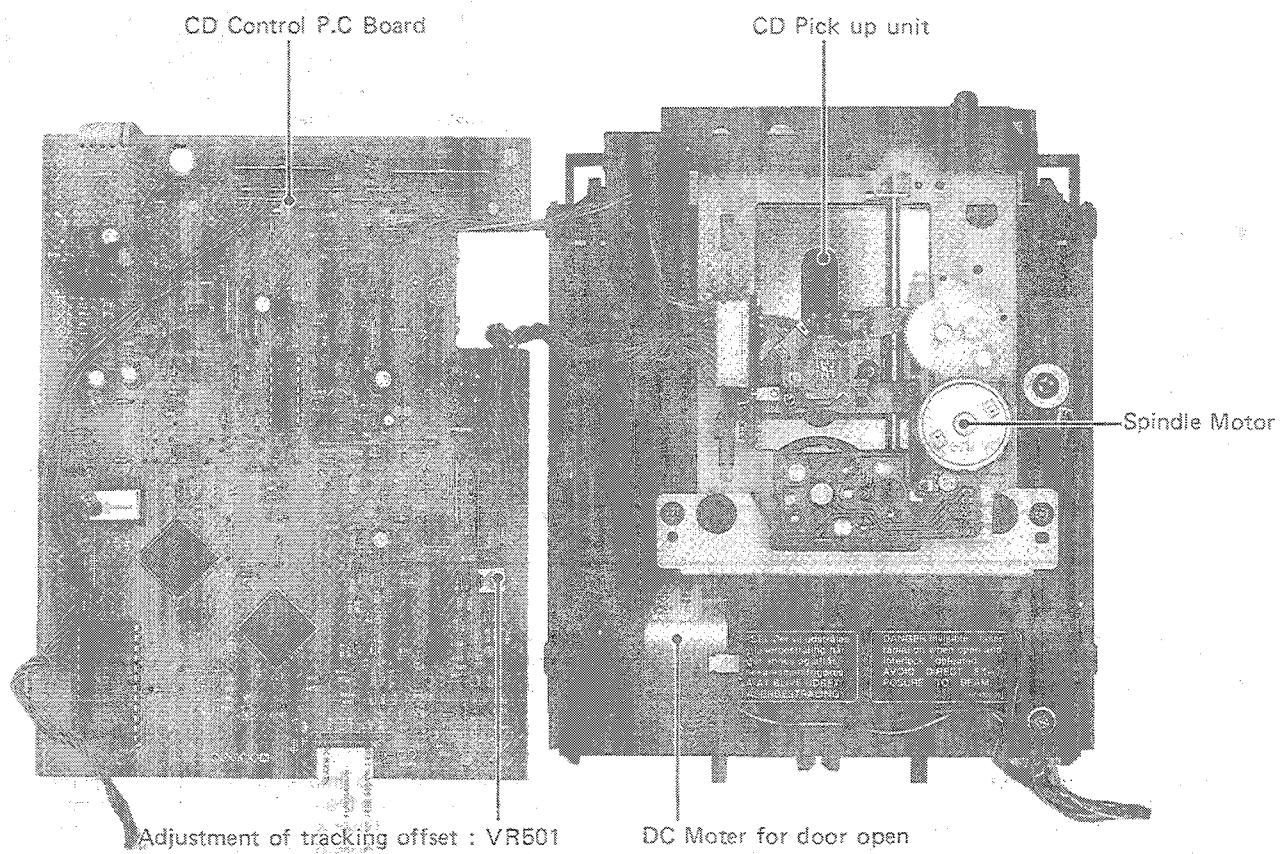


Fig. 6-2

■ Tape Deck · Amplifier Sections

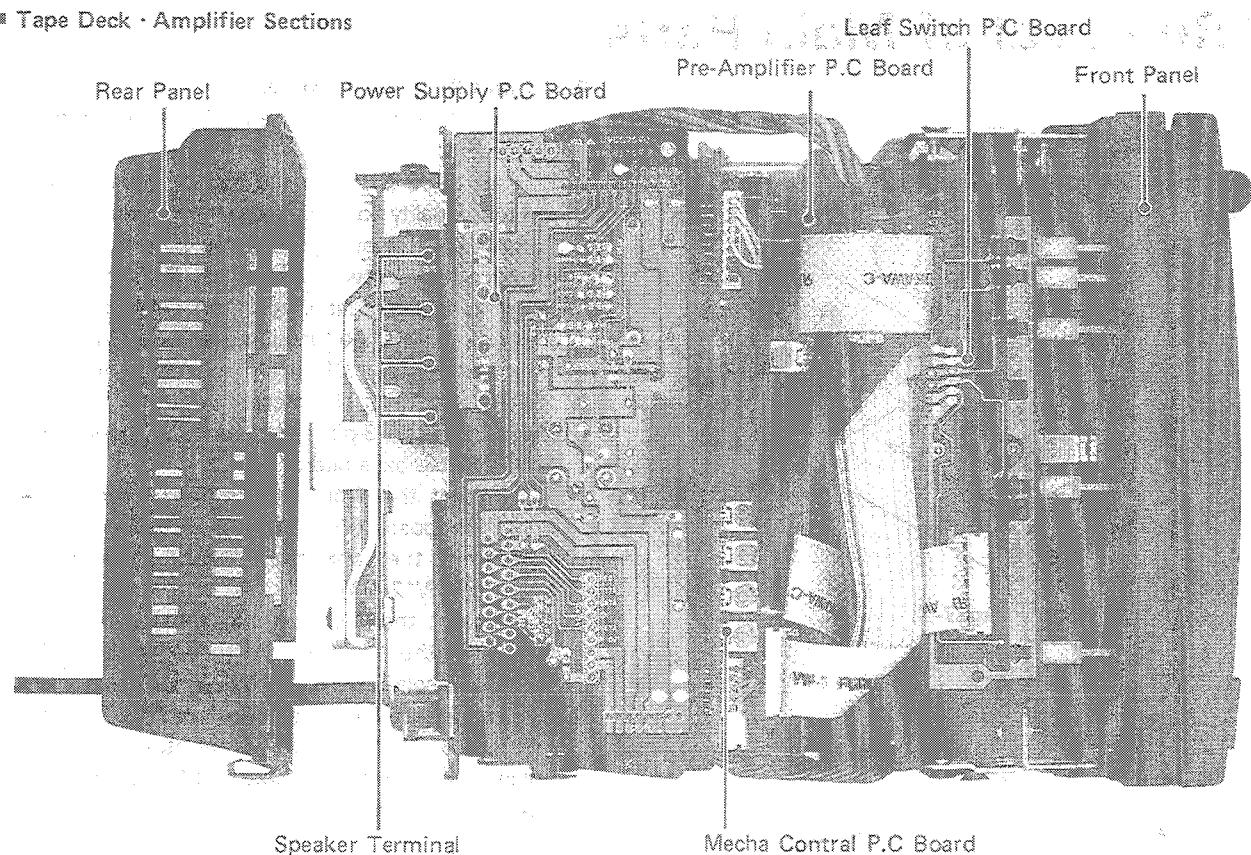


Fig. 6-3

■ Cassette Mechanism Sections

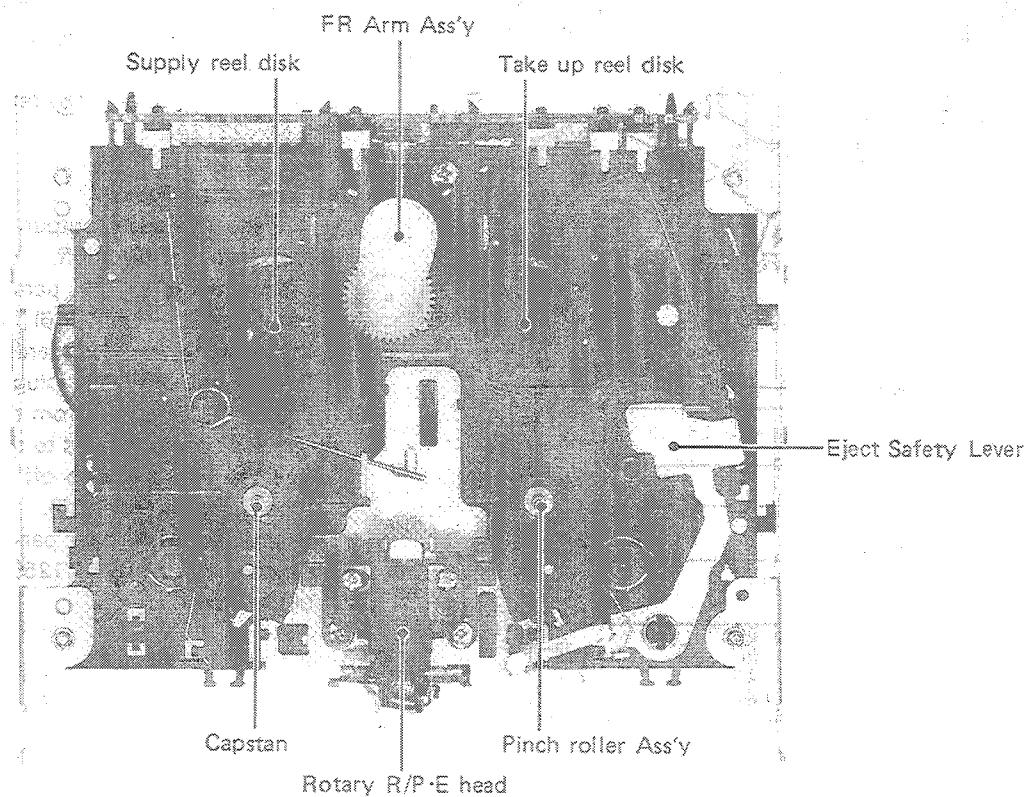


Fig. 6-4

## 7 Removal of Main Parts

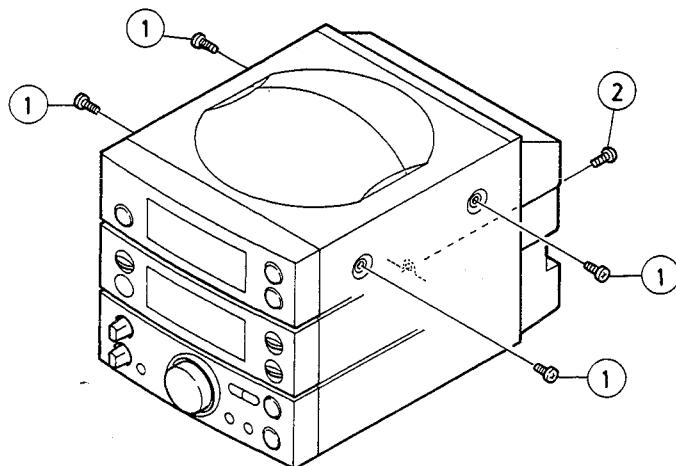


Fig. 7-1

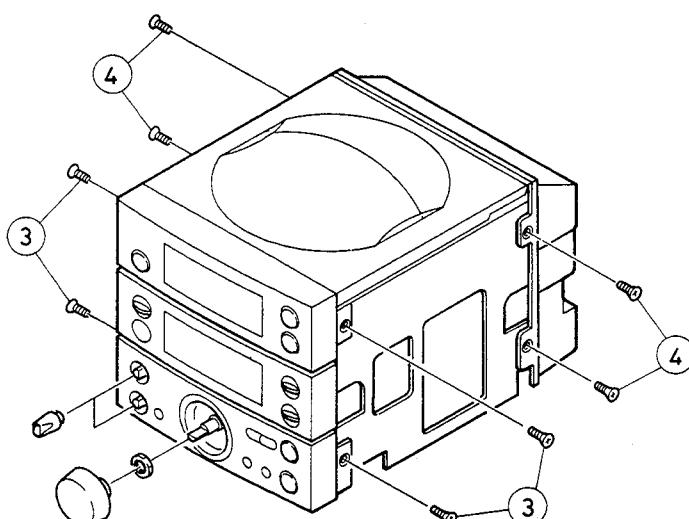


Fig. 7-2

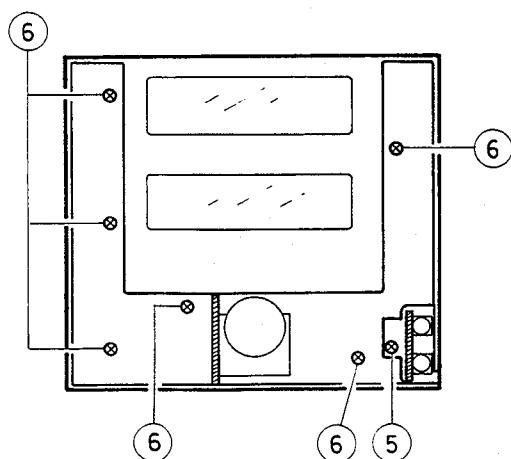


Fig. 7-3

### ■ CD and Receiver sections

1. Remove five screws ① and ② retaining the metal cover. (Fig. 7-1)
2. Pull out three knobs of the sound volume control and the tone quality controls (treble and bass). (Fig. 7-2)
3. Remove four screws ③ retaining the front panel.
4. Remove four screws ④ retaining the rear panel.
5. Detach the front panel first, and disconnect the 5-pin plug (wired with the function board - VMW1255B) from the connector CN314 on the volume board (VMW2312C) with the motor.
6. Disconnect the 8-pin plug from the connector CN313 on the treble bass board.
7. Disconnect the 7-pin plug which is wired with the operation board (VMW2312A) attached to the front panel from the connector CN702 of the LCD display board (VMW1246A).
8. Disconnect the 2-pin plug which is wired with the motor for the volume from the connector CN701 of the LCD display board (VMW1246A).
9. Disconnect the 8-pin plug wire with the function board (VMW1255B) from the connector CN602 of the volume board with the motor (VMW2312B).
10. Take out the front panel.

### ■ P.C. boards attached to front panel (Fig. 7-3)

1. Remove a screw ⑤ retaining the volume assembly for tone quality control.
2. Remove nuts with washers retaining the volume assembly with the motor from the front panel, and take out the volume assembly with the motor.
3. Remove six screws ⑥ retaining the operation board (VMW2312A).

### ■ Rear panel (Fig. 7-2)

1. Release the audio output cable from the clamp and move the rear panel off.
2. Disconnect the 2-pin parallel wires (wired with the tuner board - VMW2326) from the connector CN1 of the antenna terminal board.
3. Disconnect the 3-pin plug (wired with the function board - VMW1255B) from the connector CN301 of the pin jack board attached to the rear panel.
4. Pull the antenna wire off the connector CN2 of the tuner board (VMW2326).
5. For replacing the rear panel, unsolder JW301 on the function board (VMW1255B) and remove the audio output cable.

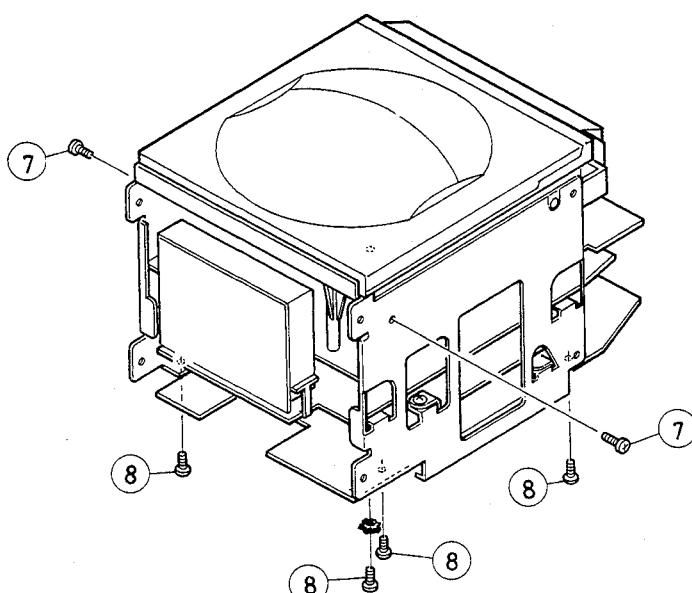


Fig. 7-4

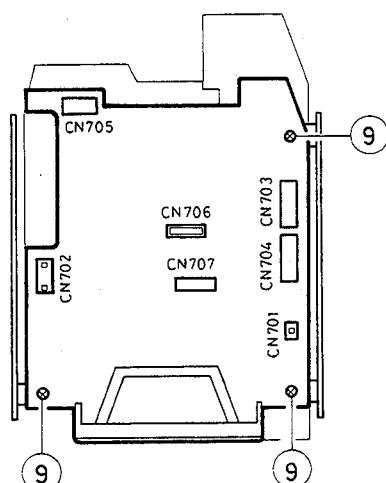


Fig. 7-5

#### ■ CD player assembly (Fig. 7-4)

1. Remove two screws ⑦ retaining the CD player assembly.
2. Disconnect the parallel wires coming from the connector CN504 of the CD control board (VMW2307A) from the connector CN707 of the Microcomputer, LCD display board (VMW1255A).
3. Disconnect the 6-pin plug which is wired with the door open/close motor board and the door open switch board from the connector CN706 of the Microcomputer, LCD display board (VMW1255A).
4. Disconnect the 5-pin parallel wires coming from the CD control board (VMW2307) from the connector CN705 of the Microcomputer, LCD display board (VMW1255A).
5. Take out the CD player assembly.

#### ■ Function board (VMW1255B) (Fig. 7-4)

Remove four screws ⑧ retaining the function board (VMW1255B) from the both sides of the chassis.

#### ■ LCD display board (VMW1255A) (Fig. 7-5)

1. Remove three screws ⑨ retaining the Microcomputer, LCD display board (VMW1255A) from the both sides of the chassis.
2. Disconnect the wire coming from the Microcomputer LCD display board (VMW1255A) from the post pin of the tuner board (VMW2326).
3. Disconnect the parallel wires coming from the LCD display board (VMW1255A) from the connectors CN302 and CN303 of the function board (VMW1255B).

#### ■ Tuner board (VMW2326) (Fig. 7-6)

1. Remove two screws ⑩ retaining the tuner board from the both sides of the chassis.
2. Disconnect the 10-pin plug wired with the tuner board (VMW2326) from the connector CN301 of the function board (VMW1255B).

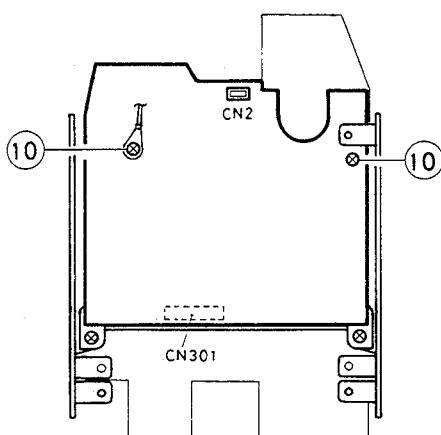


Fig. 7-6

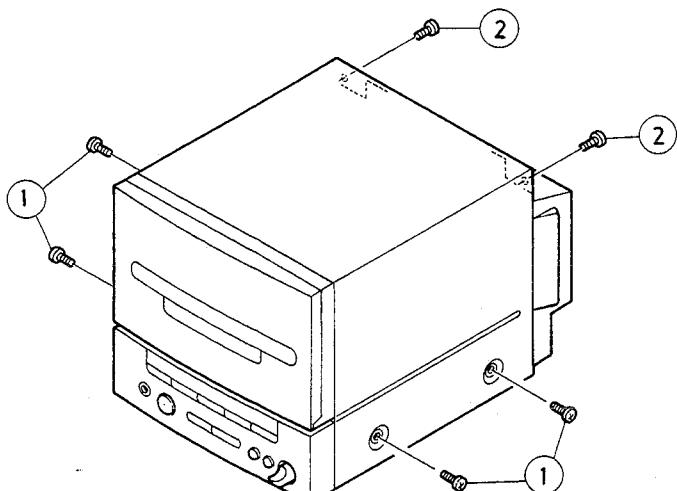


Fig. 7-7

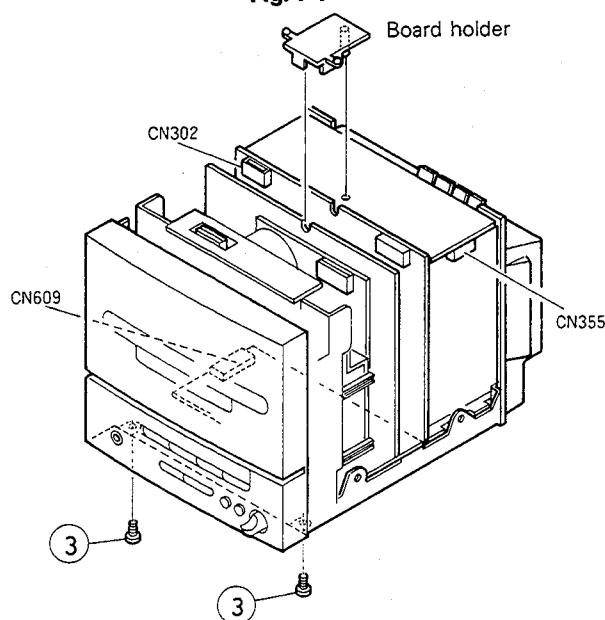


Fig. 7-8

### ■ Tape deck and amplifier section

1. Remove six screws ① and ② retaining the metal cover. (Fig. 7-7), (Fig. 7-8)
2. Detach the board holder.
3. Remove two screws ③ retaining the front panel, the bottom cover and the jack holder together with.
4. Disconnect the 9-pin cable wired with the connector CN354 of the power board (VMW1249B) from the connector CN609 of the preamp board (VMW2317C).
5. Disconnect the 5-pin cable coming from the headphone jack board from the connector CN355 of the power board.
6. Disconnect the 5-pin cable coming from the connector CN353 of the power board (VMW1249B) from the connector CN302 of the preamp board (VMW1254A).
7. Disassemble the power supply section and the deck section from each other.

### ■ Deck section (Fig. 7-9), (Fig. 7-10)

1. Disconnect the 8-pin parallel wires coming from CN502 of the mechanism control board (VMW1254B) from the connector A of the reel motor board (VMW3272A) attached to the mechanism.
2. Disconnect the 7-pin parallel wires coming from CN503 of the mechanism control board (VMW1254B) from the connector B of the cam switch board (VMW3273A).
3. Disconnect the connectors CN505 and CN504 of the mechanism control board (VMW1254B) from the connectors CN603 and CN604 of the relay board (VMW2317C) respectively.
4. Disconnect the 6-pin parallel wires coming from the mechanism switch board (VMW1253) from the connector CN501 of the mechanism control board (VMW1254B). Also disconnect the wire coming from the relay board from the post pin of the mechanism control board (VMW1254B).
5. Disconnect the connectors CN303 and CN304 of the preamp board (VMW1254A) from the connectors CN602 and CN603 of the relay board (VMW2317C) respectively.
6. Disconnect the wires coming from the relay board (VMW2317C) and the head from the connector CN301 of the preamp board (VMW1254A).

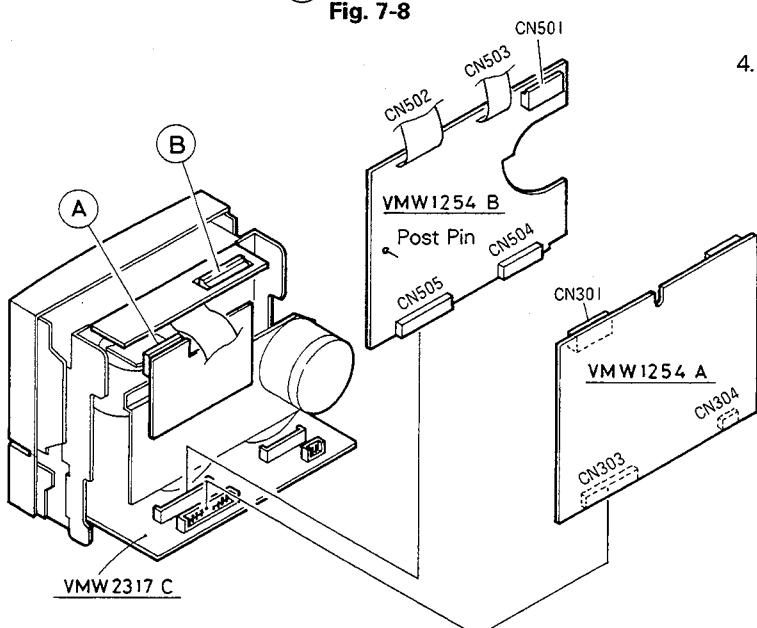


Fig. 7-9

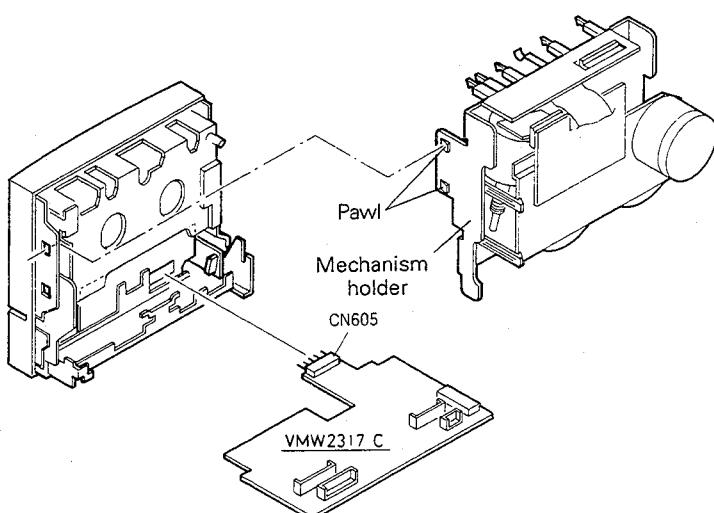


Fig. 7-10

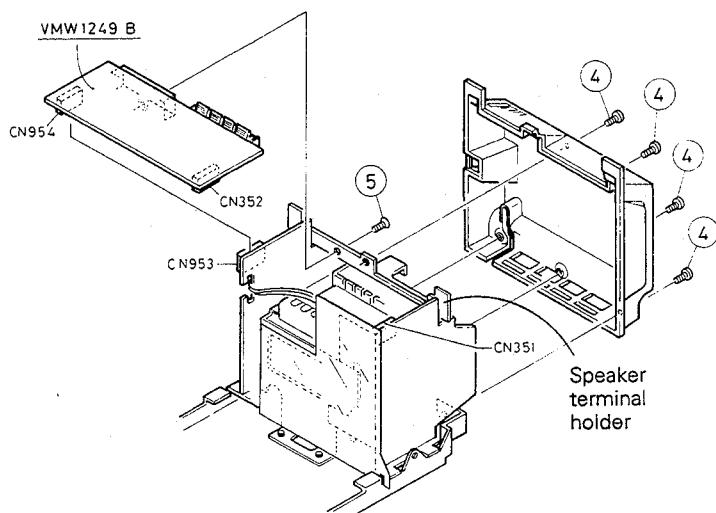


Fig. 7-11

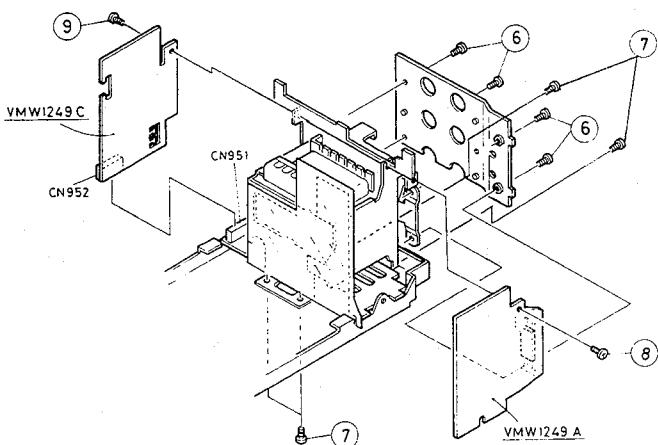


Fig. 7-12

5. Disengage the pawls of the mechanism holders on the both sides of the cassette mechanism from the front panel and detach the cassette mechanism.
6. Disconnect the plug of CN605 of the relay board (VMW2317C) from the connector CN606 of the operation key board (VMW2317A) attached to the front panel.

■ **Power supply section** (Fig. 7-11, Fig. 7-12)

1. Remove four screws ④ retaining the rear panel.
2. Put the power cord off the groove of the rear panel and take out the rear panel.
3. Remove a screw ⑤ retaining the connector of the power board (VMW1249B) from the speaker terminal holder.
4. Disconnect connectors CN954 and CN352 of the power board (VMW1249B) from connectors CN953 of the power relay board (VMW1249C) and CN351 of the power amp board (VMW1249A) respectively, and take out the board VMW1249B.
5. Remove four screws ⑥ retaining the radiation (A).
6. Remove four screws ⑦ retaining the bottom cover and the transformer bracket.
7. Take off the bottom cover first, and remove a screw ⑧ retaining the power amp board (VMW1249A) to detach it.
8. Remove a screw ⑨ retaining the power relay board (VMW1249C).
9. Disconnect the connector CN952 of the power relay board (VMW1249C) from the connector CN951 of the power transformer board (VMW1249D).

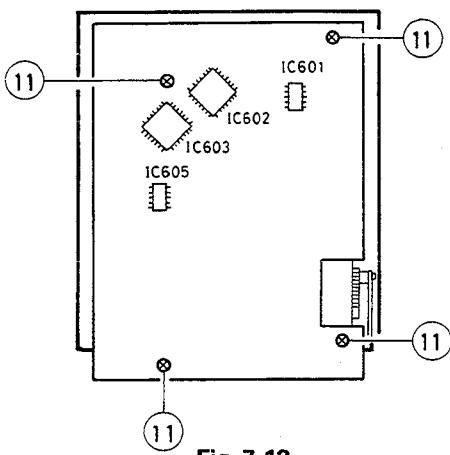


Fig. 7-13

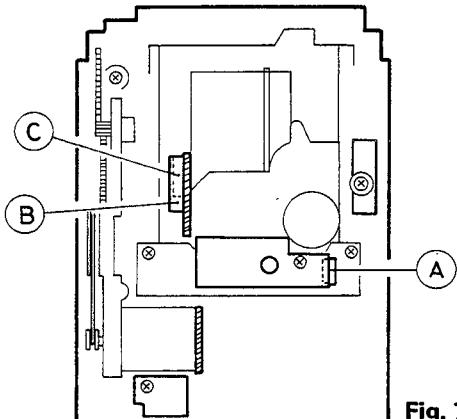


Fig. 7-14

### ■ CD control board (VMW2307) (Fig. 7-13), (Fig. 7-14)

1. Remove four screws ⑪ retaining the CD control board (VMW2307).
2. Disconnect the 6-pin plug of the connector CN502 of the CD control board (VMW2307) from the connector Ⓐ of the spindle motor board.
3. Disconnect the 10-pin plug and 4-pin plug of the connectors CN501 and CN503 of the CD control board (VMW2307) from the connectors Ⓑ, Ⓒ of the CD pickup board.

### ■ Cassette mechanism section

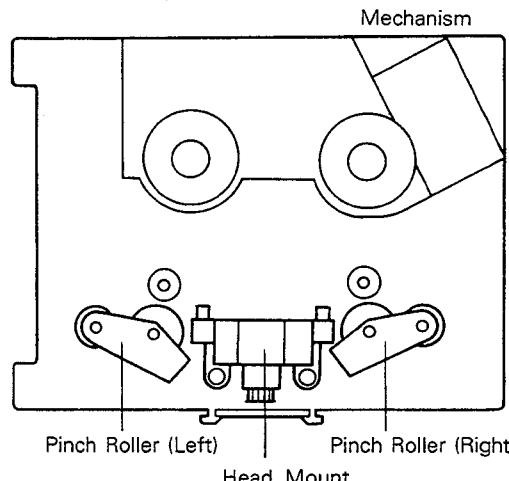


Fig. 7-15

### ■ Pinch roller assembly (Fig. 7-15, Fig. 7-17)

1. Release the return spring from the pawl and the return spring can be removed.
2. Remove the pinch roller spring.
3. For re-engaging the springs, see the figures of (A) and (B).

### ■ Head mount assembly (Fig. 7-15, Fig. 7-16)

1. Disengage two pawls securing the head wire relay board.
2. Remove two screws ① retaining the head mount assembly from the head base.
3. Remove the head gear (1) and the head spring.

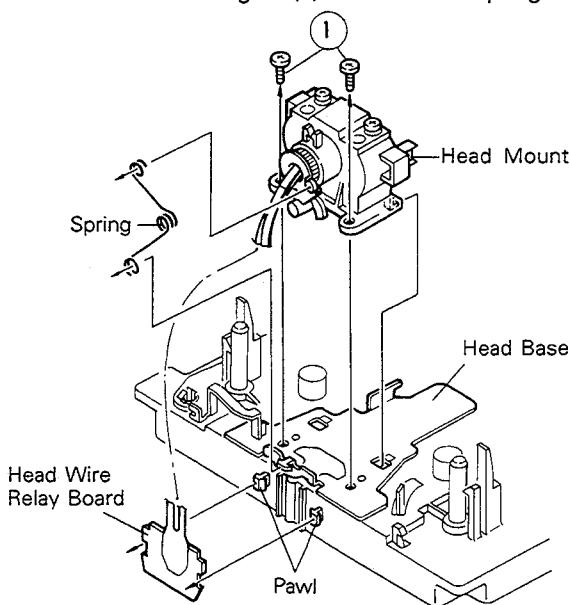


Fig. 7-16

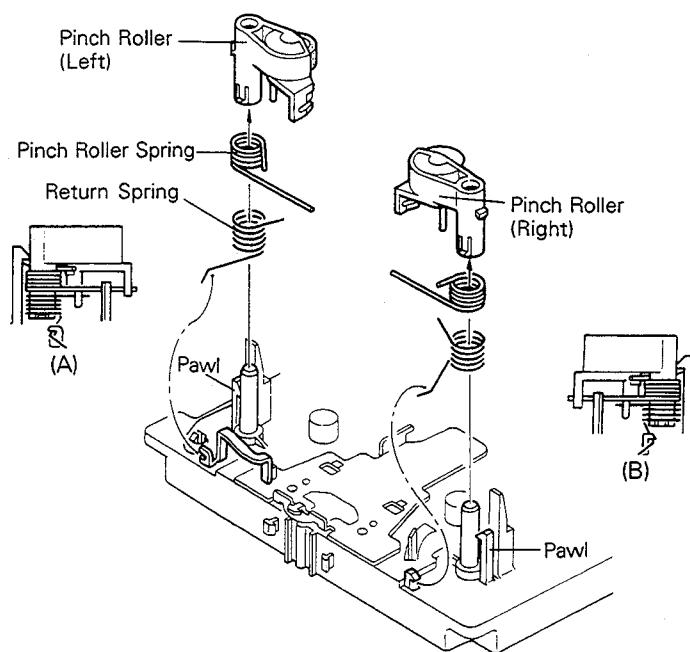


Fig. 7-17

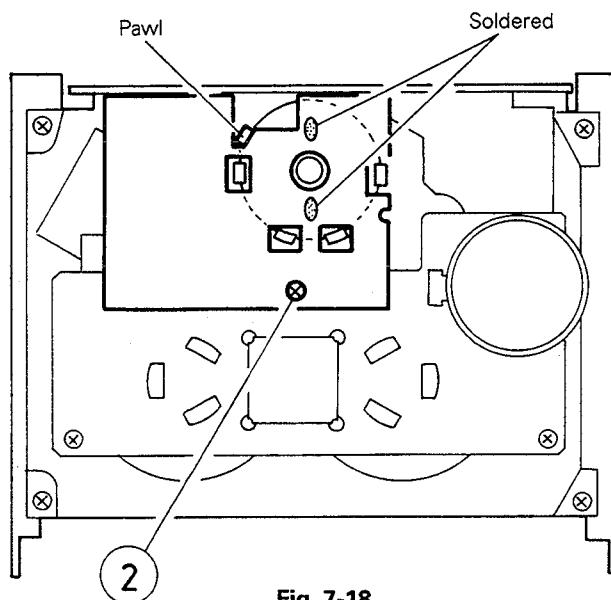


Fig. 7-18

■ **FM bracket/Capstan motor assembly** (Fig. 7-18, Fig. 7-19)

1. Unsolder at the two points connecting the drive motor and the motor board. (Mechanism A or Mechanism B)
2. Remove two screws ② retaining the FM bracket and capstan motor assembly together with.
3. Remove four fixing screws ③ and disengage five pawls, and the FM bracket and capstan belt can be removed.
4. Remove two screws ④ retaining the capstan motor to the FM bracket.
5. For re-engaging the capstan belt, refer to Fig. 7-20.

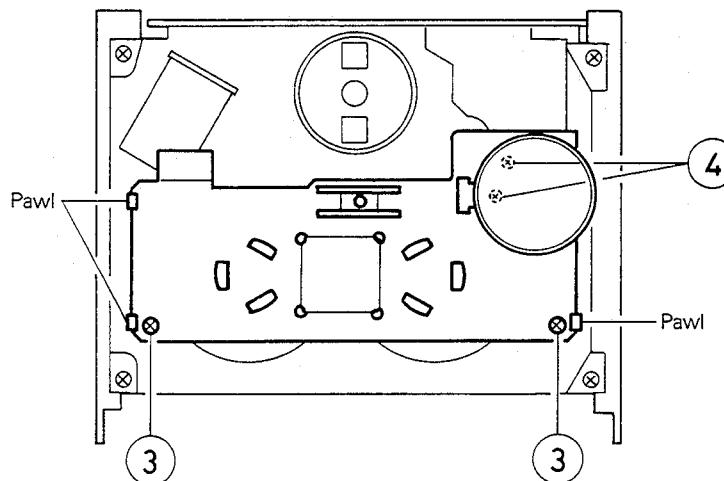
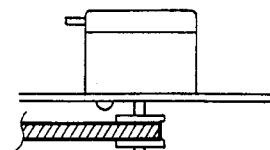


Fig. 7-19

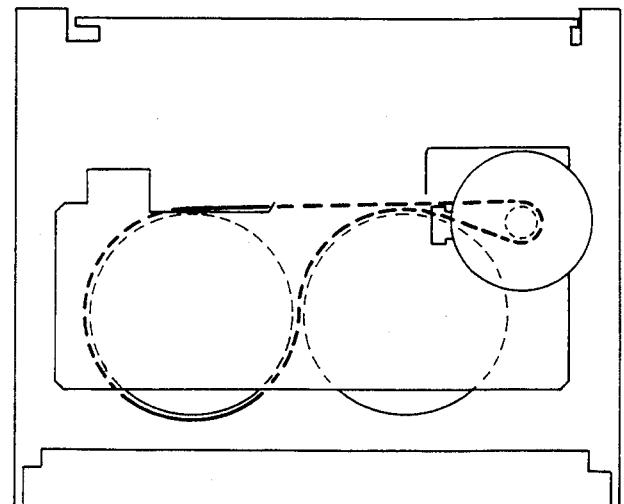


Fig. 7-20

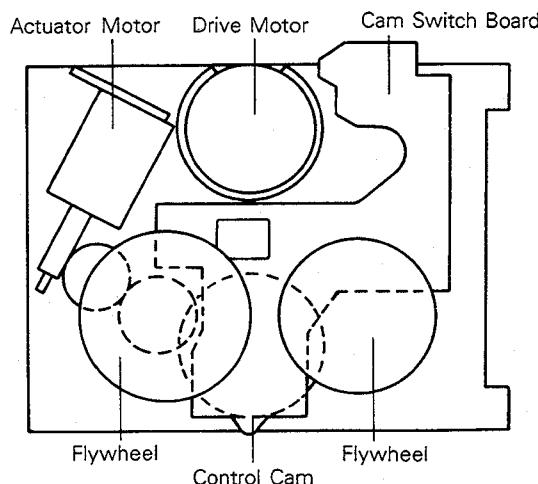


Fig. 7-21

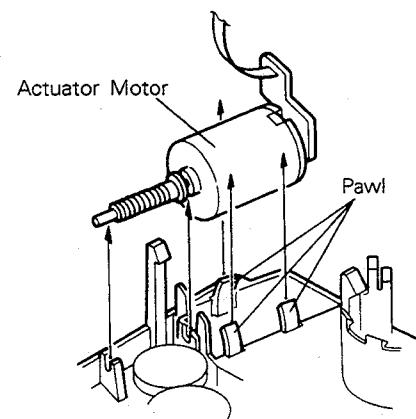


Fig. 7-22

**■ Actuator motor assembly (Fig. 7-20, Fig. 7-21)**

Disengage three pawls securing the actuator motor assembly.

**■ Flywheel assembly (Fig. 7-21, Fig. 7-23)**

Remove the washer engaged on the capstan shaft and pull out the flywheel.

**■ Drive motor (Fig. 7-21, Fig. 7-24)**

1. Pull the gear and the arm assembly out of the drive motor shaft.
2. Remove a screw ⑤ retaining the drive motor.
3. Disengage four pawls securing the drive motor.

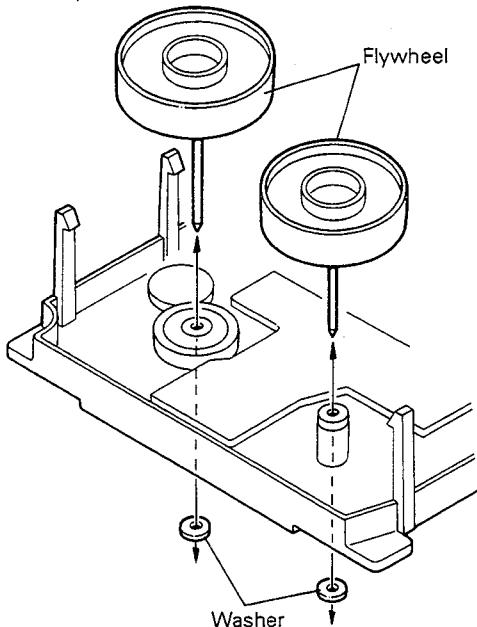


Fig. 7-23

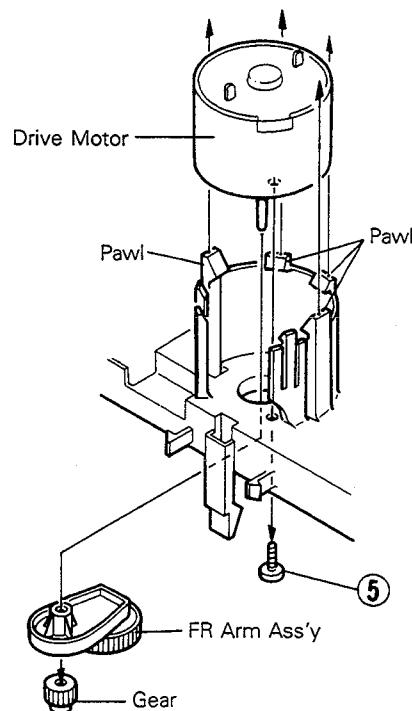


Fig. 7-24

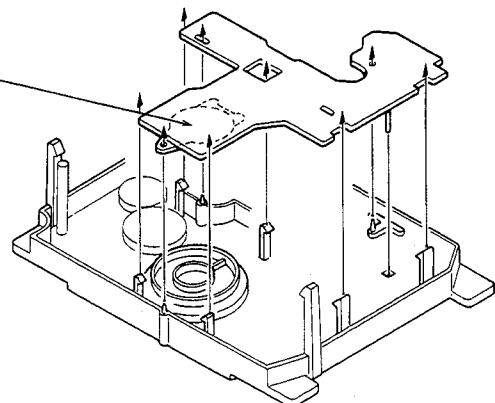
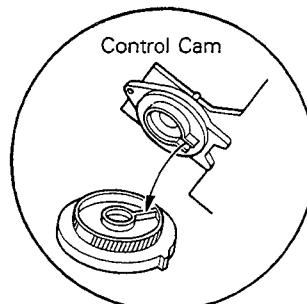


Fig. 7-25

**■ Cam switch board (Fig. 7-21, Fig. 7-25)**

1. Disengage six pawls retaining the cam switch board.
2. Engagement of the cam switch board with the control cam is shown in the magnified illustration in the circle.

**■ Actuator gear (big) (Fig. 7-21, Fig. 7-26)**

Disengage three pawls retaining the actuator gear (big).

**■ Control cam (Fig. 7-21, Fig. 7-26)**

1. Disengage two pawls retaining the control cam.
2. Assembled condition of the control cam is illustrated in the circle.

**■ Actuator gear (small) (Fig. 7-21, 7-26)**

Disengage two pawls retaining the actuator gear (small).

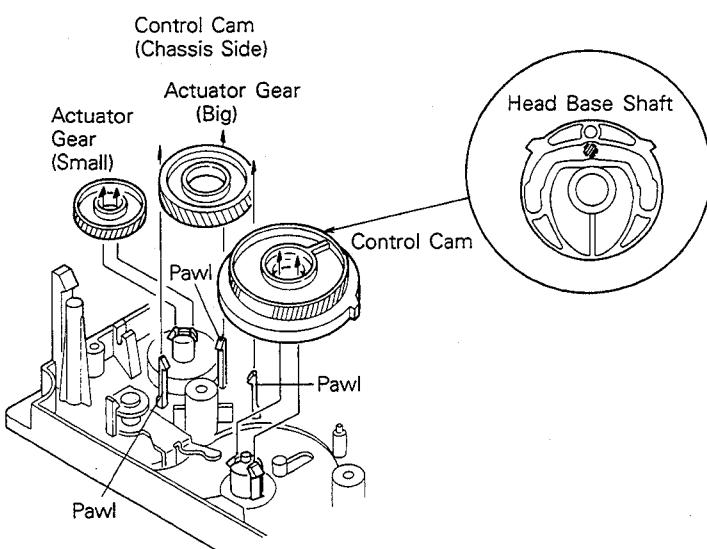


Fig. 7-26

### ■ Speaker system

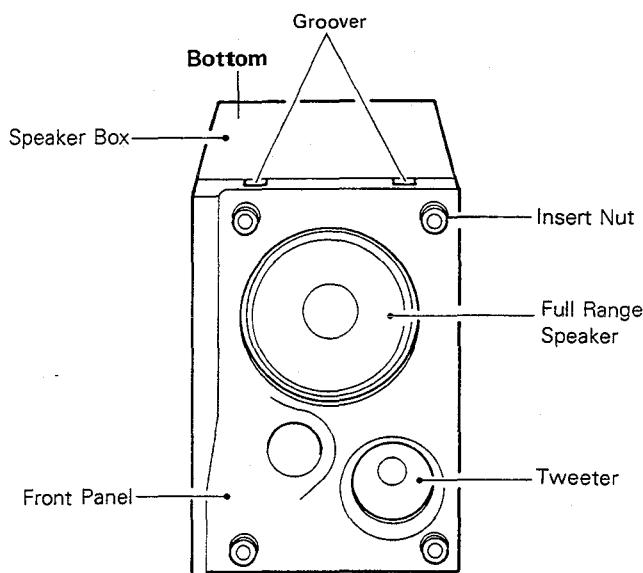


Fig. 7-28

**Note :** Front panel and speaker box are provided together with as an assembly for servicing. They won't be supplied individually.

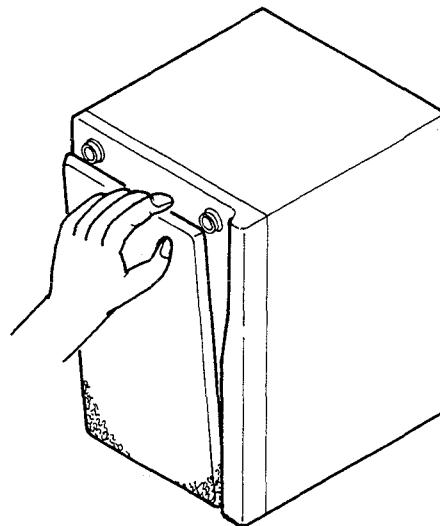


Fig. 7-27

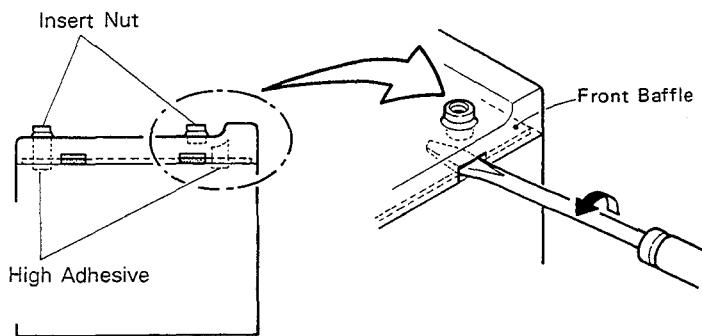


Fig. 7-29

### ■ Speaker box

1. Remove the Saran (synthetic resin) net by hand. (Fig. 7-27)
2. Stand the speaker box upside down as shown in Fig. 7-28.
3. Insert an ordinary (—) screwdriver into the right hole shown in Fig. 7-28 and Fig. 7-29 and push the bottom end of the insert nut upward.

**Note:** Since high power adhesive is used to glue the boss of the front panel and the speaker box together, apply a constant force for a long time to separate them from each other. If it is intended to do in a short time, the boss of the front panel will be damaged.

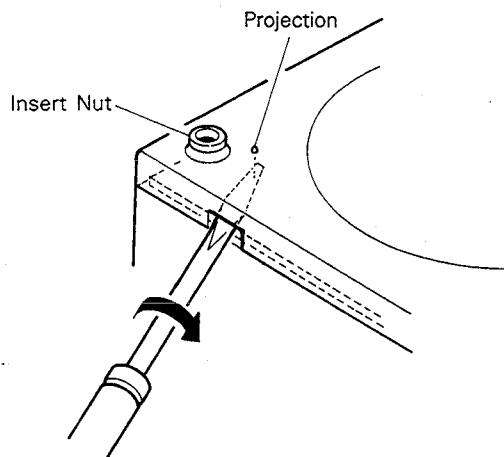


Fig. 7-30

4. Insert an ordinary (—) screwdriver into the left hole shown in Fig. 7-30 and set its edge just under the small projection. Keeping this position, slowly turn the screwdriver to push the front panel gently upward with care as described in the above note.
5. When there is a gap between the front panel and the speaker box, insert something like a UM-3 battery into it as shown in Fig. 7-31.
6. Next, insert an acrylic plate of 1 mm thick or so into the gap aiming at the center boss on the left side of the front panel.
7. In order to prevent the front panel from damage, insert an ordinary screwdriver between the front panel and the acrylic plate as shown in Fig. 7-31, then lift the front panel upward using the front baffle plate as a fulcrum.
8. Repeat the above steps 4 through 7 aiming at different bosses to remove the front panel.
9. For removing the speaker unit, remove four screws ① for the full range speaker while two screws ② for the tweeter as shown in Fig. 7-33.

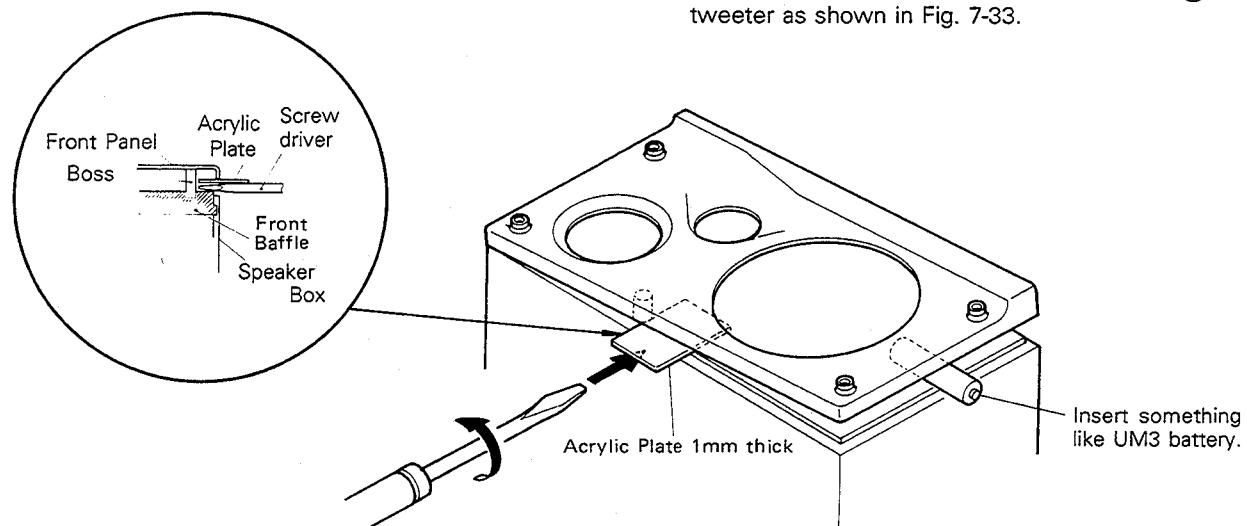


Fig. 7-31

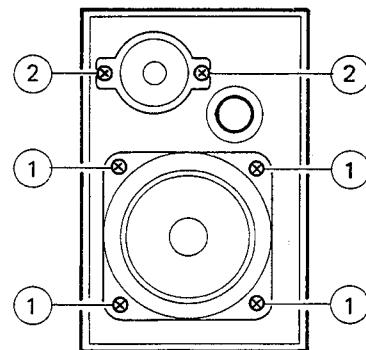
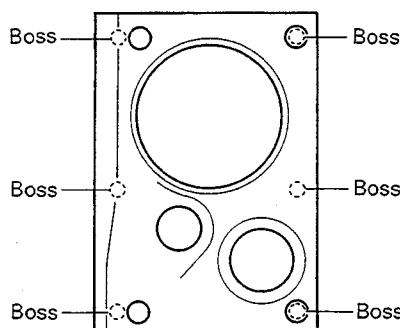


Fig. 7-32

Fig. 7-33

## 8 Main Adjustment

### ■ Equipment and Measuring Instrument used for Adjustment

Electronic voltmeter  
Audio frequency oscillator  
Attenuator  
Wow-flutter meter  
Frequency counter

Standard signal generator  
Torque testing cassette gauge CTG-N  
Alignment tape  
Measuring tape: TS-8 (UR)  
VTT702 (8 kHz)

### ■ Condition for Measurement: Tuner Sections

Supply voltage : 230 V AC (50/60 Hz) ... UX-1E/G  
240 V AC (50/60 Hz) ... UX-1B  
Applied voltage of the Tuner : 5.6 V DC  
Connect a 47 Ω resistor in series with the power supply.  
Reference output: Speaker ; 50 mW (0.45 V)/4 Ω  
Reference input: AUX IN ; -8 dBs  
Headphone; 0.61 mW (0.14 V)/32 Ω  
Input signal : (AM) Modulation frequency; 400 Hz, 30%  
(FM) Modulation frequency; 400 Hz,  
22.5 kHz dev.  
Set position of  
Volume & Switch : BASS/TREBLE; Center  
FM; Stereo  
TIMER; OFF  
Main Volume; 0 dBs output  
BEAT Cut; Standard  
DOLBY NR; OFF  
TAPE SELECT; NORMAL

#### Loop Antenna

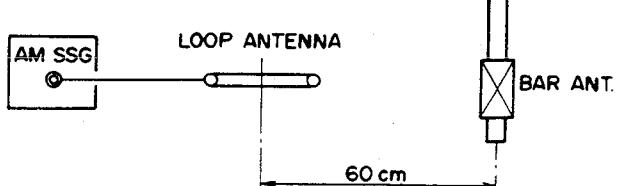


Fig. 8-1

#### Attentive point

##### Connection of IF sweeper :

Connect a 30 pF capacitor and a 33 kΩ resistor in series with the sweeper's output and a 0.082 μF capacitor and a 100 kΩ resistor in parallel to the input.

IF sweeper's output level: Set at the lowest level that will allow adjustment.

##### FM MPX adjustment:

For this adjustment, connect a 100 kΩ resistor in series with the frequency counter's input.

### ■ Location of Adjustment (Tuner P.C. Board View)

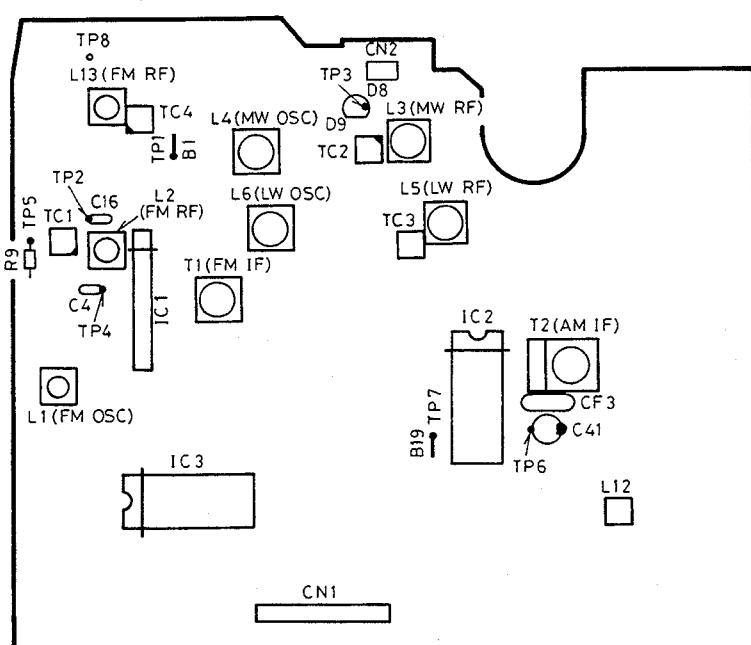


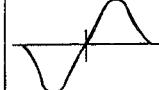
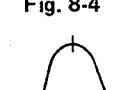
Fig. 8-2

- L5,L6 TC3 E/B/G Version only.
- L12,L13,TC4,TP8 G Version only.
- TC1 G Version only.

### ■ Preset memory (UX-1B/E/G)

Band Memory	FM (MHz)	AM (kHz)
M1	87.5	522
M2	108	1629
M3	88	603
M4	98	1404
M5	106	999
M6	87.5	144
M7	87.5	288
M8	87.5	216

## ■ Adjustment of Tuner Section

Item	Measuring Condition and Main Adjustment	Standard Value	Adjust
AM IF	<p>The unit should not usually require adjustment. Follow the steps below when adjustment is necessary.</p> <p>[Conditions]</p> <ul style="list-style-type: none"> <li>• Band select switch position: AM</li> <li>• Reception frequency : Set at the highest frequency where no signal is received.</li> <li>• Volume control : Minimum gain position</li> <li>• Tuner input position : Positive side to TP3</li> <li>• Tuner output position : Positive side to TP6, Negative side to TP7</li> </ul> <p>[Adjustment] Adjust T2 (above mentioned adjust point) so that maximum and symmetrical waveform can be obtained. In this case, the wave head should appear at the center marker (455 kHz) on the scope of sweeper.</p>		Fig. 8-3 T2 (AM IF)
FM IF	<p>The unit should not usually require adjustment. Follow the steps below when adjustment is necessary.</p> <p>[Conditions]</p> <ul style="list-style-type: none"> <li>• Band select switch position: FM</li> <li>• Reception frequency : Set at the highest frequency where no signal is received.</li> <li>• Volume control : Minimum gain position</li> <li>• Tuner input position : Positive side to TP4</li> <li>• Tuner output position : Positive side to TP6, Negative side to TP7</li> </ul> <p>[Adjustment] 1. Disconnect CF3 to change waveform from S-curve (Fig. 8-4) to single peak of the waveform (Fig. 8-5). 2. Turn T1 to shape waveform so that it peaks in the center (10.7 MHz) of the waveform and is symmetrical in both sides. 3. Connect CF3 again and confirm that waveform returns to the original (Fig. 8-4).</p>	 	Fig. 8-4 Fig. 8-5 T1 (FM IF)
LW Tracking	<p>[Conditions]</p> <ul style="list-style-type: none"> <li>• Band select switch position: AM</li> <li>• Tuner input : Loop antenna</li> </ul> <p>[Adjustment]</p> <ol style="list-style-type: none"> <li>1. Adjustment of VT : With preset to M6, receive 144 kHz signal and adjust L6 to obtain <math>1.1 \pm 0.02</math> V at TP5.</li> <li>2. Frequency of SSG : 144 kHz</li> <li>3. Reception position : Preset position (M6)</li> <li>4. Adjust L5 to maximize output.</li> <li>5. Frequency of SSG : 288 kHz</li> <li>6. Reception position : Preset position (M7)</li> <li>7. Adjust TC3 to maximize output.</li> <li>8. Repeatedly adjust L5 and TC3 to obtain maximum sensitivity.</li> </ol>	1.1 ± 0.02 V	
MW Tracking	<p>[Conditions]</p> <ul style="list-style-type: none"> <li>• Band select switch position: AM</li> <li>• Tuner input : Loop antenna</li> </ul> <p>[Adjustment]</p> <p>The unit should not usually require adjustment. Follow the steps below when adjustment is necessary.</p> <ol style="list-style-type: none"> <li>1. Frequency of SSG : 603 Hz</li> <li>2. Reception position : Preset position (M3)</li> <li>3. Adjust L3 to maximize output.</li> <li>4. Frequency of SSG : 1404 kHz</li> <li>5. Reception position : Preset position (M4)</li> <li>6. Adjust TC2 to maximize output.</li> <li>7. Repeatedly adjust L3 and TC2 to obtain maximum sensitivity.</li> <li>8. IFT adjustment (UX-1E #1-11000 only): Raise output up to 1404 kHz and adjust T2 to maximize output moreover.</li> </ol>	Maximum	L3 TC2
FM Tracking (UX-1E/B)	<p>[Conditions]</p> <ul style="list-style-type: none"> <li>• Band select switch position: FM</li> <li>• Tuner input position : Positive side to TP1, Negative side to TP2 (<math>75 \Omega</math> unbalanced)</li> </ul> <p>[Adjustment - UX-1E/B]</p> <ol style="list-style-type: none"> <li>1. Frequency of SSG : 88 MHz</li> <li>2. Reception position : Preset position (M3)</li> <li>3. Adjust L1 to maximize output.</li> </ol> <p>[Adjustment - UX-1G]</p> <ol style="list-style-type: none"> <li>1. Adjustment of VT : With preset to M4, receive 87.5 MHz signal and adjust L1 to obtain <math>1.3 \pm 0.02</math> V at TP5.</li> <li>2. Frequency of SSG : 87.5 MHz</li> <li>3. Reception position : Preset position (M1)</li> <li>4. Frequency of SSG : 88 MHz</li> <li>5. Reception position : Preset position (M3)</li> <li>6. Adjust L2 and L13 to maximize output.</li> <li>7. Frequency of SSG : 106 MHz</li> <li>8. Reception position : Preset position (M4)</li> <li>9. Adjust TC1 and TC4 to maximize output.</li> <li>10. Repeatedly adjust L2 and TC1 to obtain maximum sensitivity.</li> </ol>	1.3 ± 0.02 V	L1 L2, L13 TC1, TC4
FM MPX Confirmation	<p>[Conditions]</p> <ul style="list-style-type: none"> <li>• Input position : Positive side to TP1, Negative side to TP2, <math>75 \Omega</math> unbalanced</li> <li>• Input signal : 98 MHz (preset position : M4), 60 dB<math>\mu</math>V modulation FM stereo modulation frequency : 1 kHz, 75 kHz dev.</li> </ul> <p>[Confirmation]</p> <p>Confirm that stereo operation and frequency separation meet the specifications.</p>	-	-

## ■ Adjustment of Amplifier Section

Item	Test Tape	Measuring and Adjustment Method	Selector Switch	Adjusting Point
L, R channel output check	VTT752	Play side A of VTT752 test tape to check L-ch output. Play side B of VTT752 test tape to check R-ch output.	TAPE	—
PB frequency response check	VTT739 Adj. output at DOLBY test point	Play VTT739 test tape and check 1 kHz output at DOLBY test point against: 63 Hz ..... -2 dB ± within 4 dB 12.5 kHz ..... 0 dB ± 3 dB (with setting to METAL position, deviation to NORMAL position should be as follows) 12.5 kHz ..... within -4 ± 2 dB Confirm the above relations.	TAPE	—
Auto tape select operation check	VTT739 Adj. output at DOLBY test point	Play VTT739 test tape without chrome detection tab cut off and check deviation of 12.5 kHz signal to 1 kHz signal.	TAPE	—
REC bias frequency adjustment	TS11 Adj. output at DOLBY test point	1) Set Beat Cut switch to NORMAL position. 2) With TAPE select switch set to METAL position, record on metal tape (TS-11). 3) Connect frequency counter to DOLBY test point and measure amplified bias leakage by digital voltmeter. 4) Adjust L301 so that frequency counter reads 69 kHz ± 0.1 kHz. 5) Set Beat Cut switch to position "2".	Beat Cut SW: NORMAL TAPE : Metal	L301
Head azimuth check	VTT704 (12.5 kHz) Adj. output at DOLBY test point	1) Play VTT704 test tape (12.5 kHz). 2) Confirm that there is not extreme difference in phase and level both in forward and reverse directions. 3) If difference is observed, adjust head azimuth adjusting screw for forward and reverse directions.	TAPE	Adjust head azimuth adjusting setscrew only after head replacement.
Tape speed & Wow & flutter adj. & check	VTT712 (3 kHz) Adj. output at DOLBY test point	1) Play VTT712 test tape (3 kHz) on mechanism B in the forward direction, and adjust VR501 so that frequency counter reads in a range between 2940 and 3090 Hz. 2) Play VTT712 test tape (3 kHz) in the reverse direction, and confirm that frequency counter reads 3000 ± 60 Hz. 3) Wow & flutter : Less than 0.2 % (JIS WRMS).	TAPE	VR501
PB output level adj.	VTT724 (1 kHz) Adj. output at DOLBY test point	Play VTT724 test tape and adjust the following so that output level is -11 dBs at DOLBY test point. VR101 for L-ch, VR201 for R-ch	TAPE	VR101 (L-ch) VR201 (R-ch)
REC/PB frequency response adj. & check	TS8, TS10 Adj. output at DOLBY test point	1) Input reference -20 dB signal through AUX IN and record it on normal tape TS8. Playing back the tape, adjust VRB11 (L-ch) and VRB21 (R-ch) respectively so that deviation of 1.25 kHz to 12.5 kHz is 0 ± 1 dB at DOLBY test point. 2) In the same manner, record the signal on CrO <sub>2</sub> (TS10) tape and metal (TS11) tape and play them back to confirm that deviation of 1.25 kHz to 12.5 kHz is 1 ± 4 dB.	TAPE: NORMAL TAPE: CrO <sub>2</sub> , METAL	VRB11 (L-ch) VRB21 (R-ch)
REC/PB output level adj.	TS8, TS10, TS11 Adj. output at DOLBY test point	1) Input reference 1 kHz signal through AUX IN and record the signal on normal tape (TS8). 2) Play back the recording and adjust VR102 (L-ch) and VR202 (R-ch) respectively to obtain 0 ± 0.5 dB as output level at DOLBY test point. 3) In the same manner, record the signal on chrome tape (TS10) and metal tape (TS11). 4) Play them back to confirm that output level at DOLBY test point is 0 ± 3 dB.	TAPE: NORMAL TAPE: CrO <sub>2</sub> , METAL	VR102 (L-ch) VR202 (R-ch)

## ■ Location of Adjustments : Tape Deck Amplifier Section

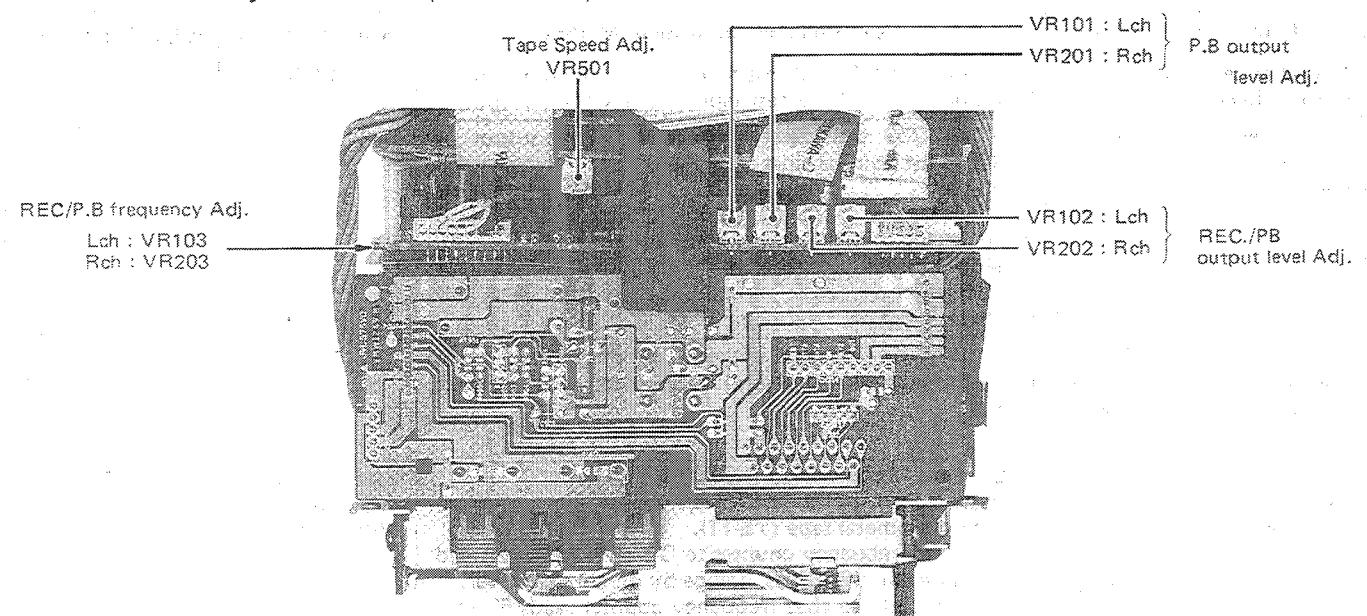


Fig. 8-6

## ■ Adjustment of CD Player Sections

### CD unit

The term "in this State" refers to the state in which the CD mechanism (EXL-M5C) and CD Control Board (VMW2307A) are assembled. Accordingly, maintenance and other service operations are performed in a "State of CD Unit".

### How to Reset Microcomputer

Adjust level at pin ⑥ of FW2 to +5 V first, and then shortcircuit it to GND.

### • Preparation

1. When regulated power supply is used, shortcircuit between pin ① and pin ④ of FW501.  
Supply power of 10 V to pin ② of FW501.  
Measure audio output at the speaker output terminal.
2. When adjustment or measurement needs to load a disk, remove the magnet clamer from the set.
3. With the OPEN/CLOSE switch (leaf switches S718, S717) set to ON, TOC reading starts.

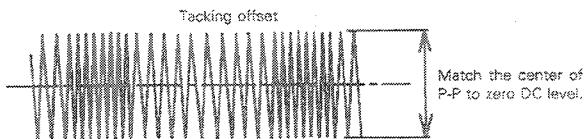


Fig. 8-7

## ■ Adjustment of Tracking Offset

Oscilloscope, Normal disk are necessary.

### • Adjustment procedure

1. Connect an oscilloscope between TP502 (VREF) and TP503 (TE).
2. Play a normal disk.
3. Shortcircuit between TP504 and TP502.
4. Adjust VR501 so that DC level of tracking error signal becomes zero (waveform on oscilloscope screen).

**Note:** Adjust VR501 to shape waveform vertically symmetric based on zero level.

Input to oscilloscope is supplied in DC coupling circuit.

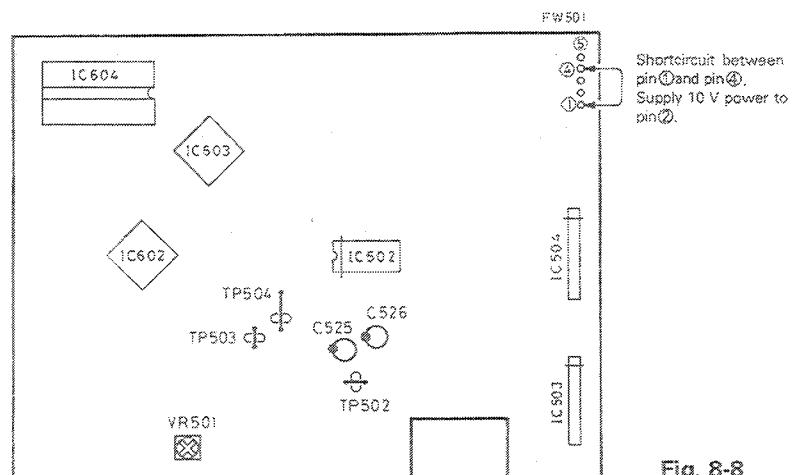


Fig. 8-8

## ■ Standard Specification of Mechanism

No.	Item	Condition	Standard Value			Measuring Instrument and Tape
1	Take-up torque (g-cm)	PLAY FF/REW (FWD REV)	27~60 g-cm 90~200 g-cm			Cassette torque gauge TW2111A (for FWD) TW2121A (for REV) TW2232 (for FF/REW)
2	*Speed deviation (Hz)	Tape start, end	4.8 cm/sec 2940~3060 Hz 9.6 cm/sec 5880~6120 Hz	*Speed error Difference between tape FWD speed at the beginning of tape on mechanism B and tape REV speed at the beginning of tape on mechanism A must be within 40Hz.	Speed must be adjusted at: $3000 \pm 10$ Hz $6000 \pm 20$ Hz	VTT712 Wow-flutter meter
3	Wow-flutter (%)	Tape start, end (FWD, REV)	JIS WRMS less than 0.18% JIS RMS less than 0.33%			VTT712 Wow-flutter meter
4	Pinch roller press power (g)	Play back (FWD, REV)	260~340 g			Leaf gauge
5	Back tension on the reel (g-cm)	Play back (FWD, REV)	1.5~5.0 g-cm			Cassette torque gauge TW2111A (for FWD) TW2121A (for REV)
6	Fast FWD time (SEC)	FF, REW	Less than 120 sec			C-60 tape
7	Tape tension (g-cm)	Play back (FWD, REV)	More than 90 g-cm			Cassette torque gauge TW2412 (for FWD) TW2422 (for REV)
8	Current consumption (mA)	CAP PLAY REEL ACT FF/REW REEL	Less than 100 mA Less than 70 mA Less than 180 mA Less than 70 mA			C-60 tape Ammeter
9	12.5 kHz azimuth (dB)	Difference between: FWD and REV Lch and Rch	Less than 3 dB Less than 4 dB			HEAD amplifier Electrical voltmeter VTT704(12.5 kHz)
10	E HEAD tilt check	FWD REV	$90^\circ \pm 45'$			M300 gauge 45' chip

# 9 Block Diagram

## ■ CD Player Sections

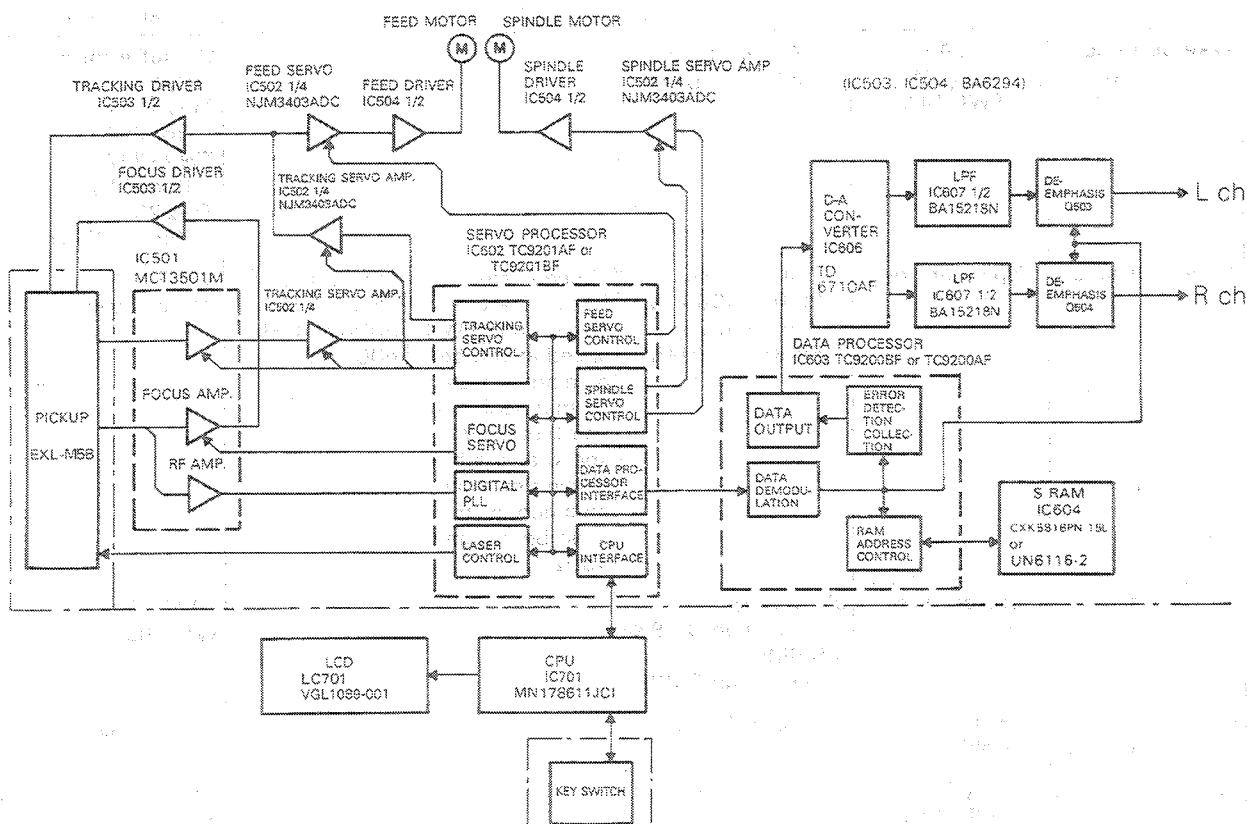


Fig. 9-1

## ■ General Sections

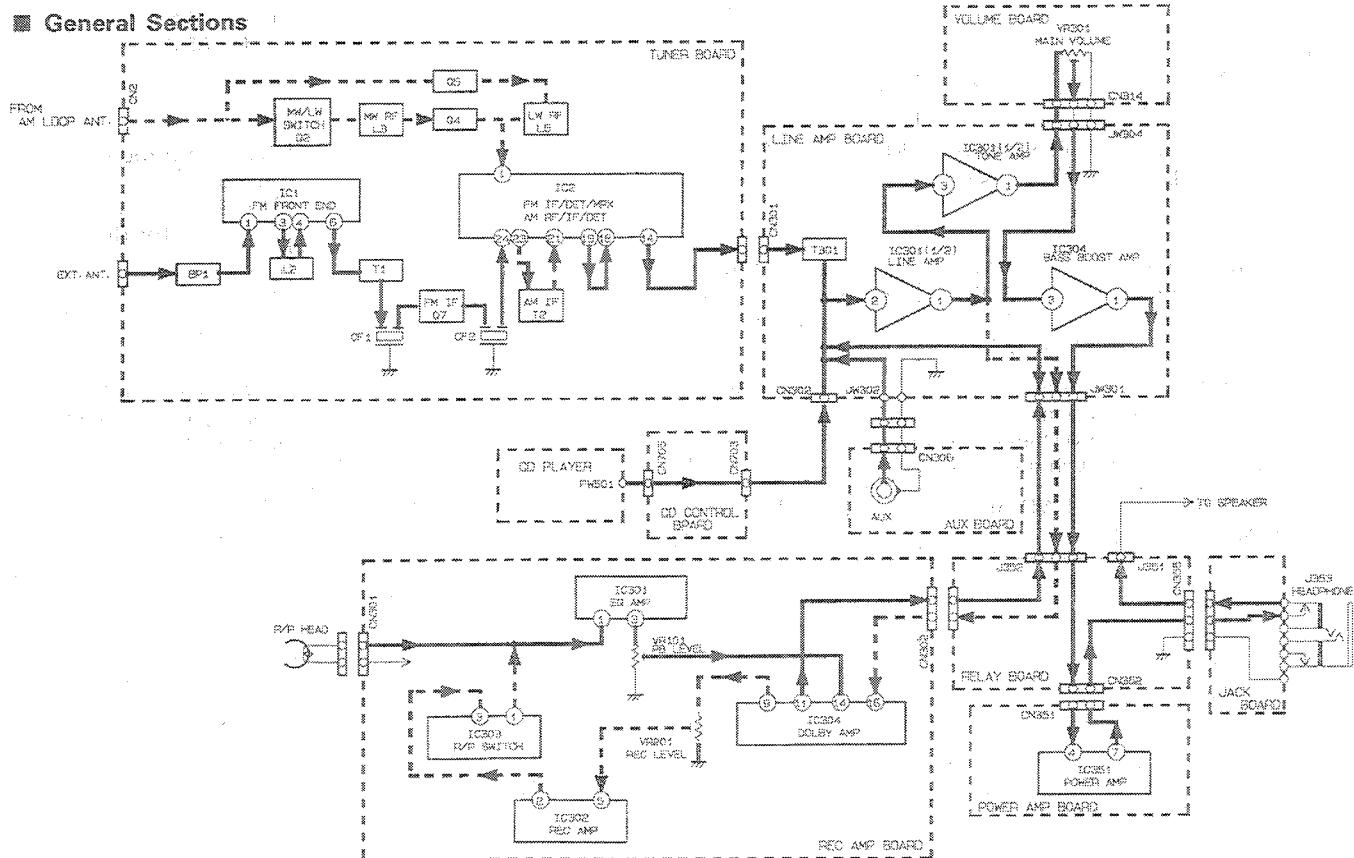
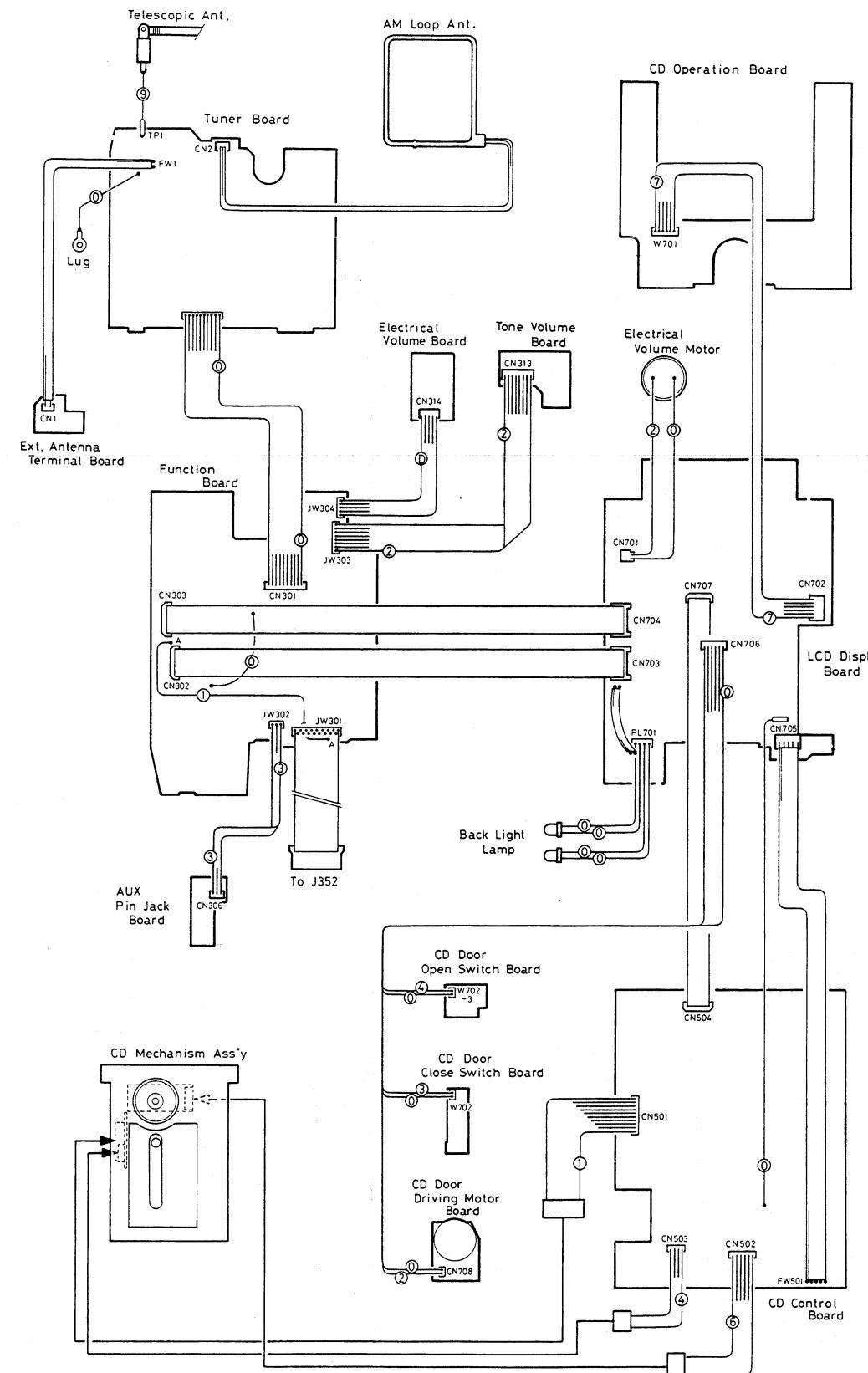


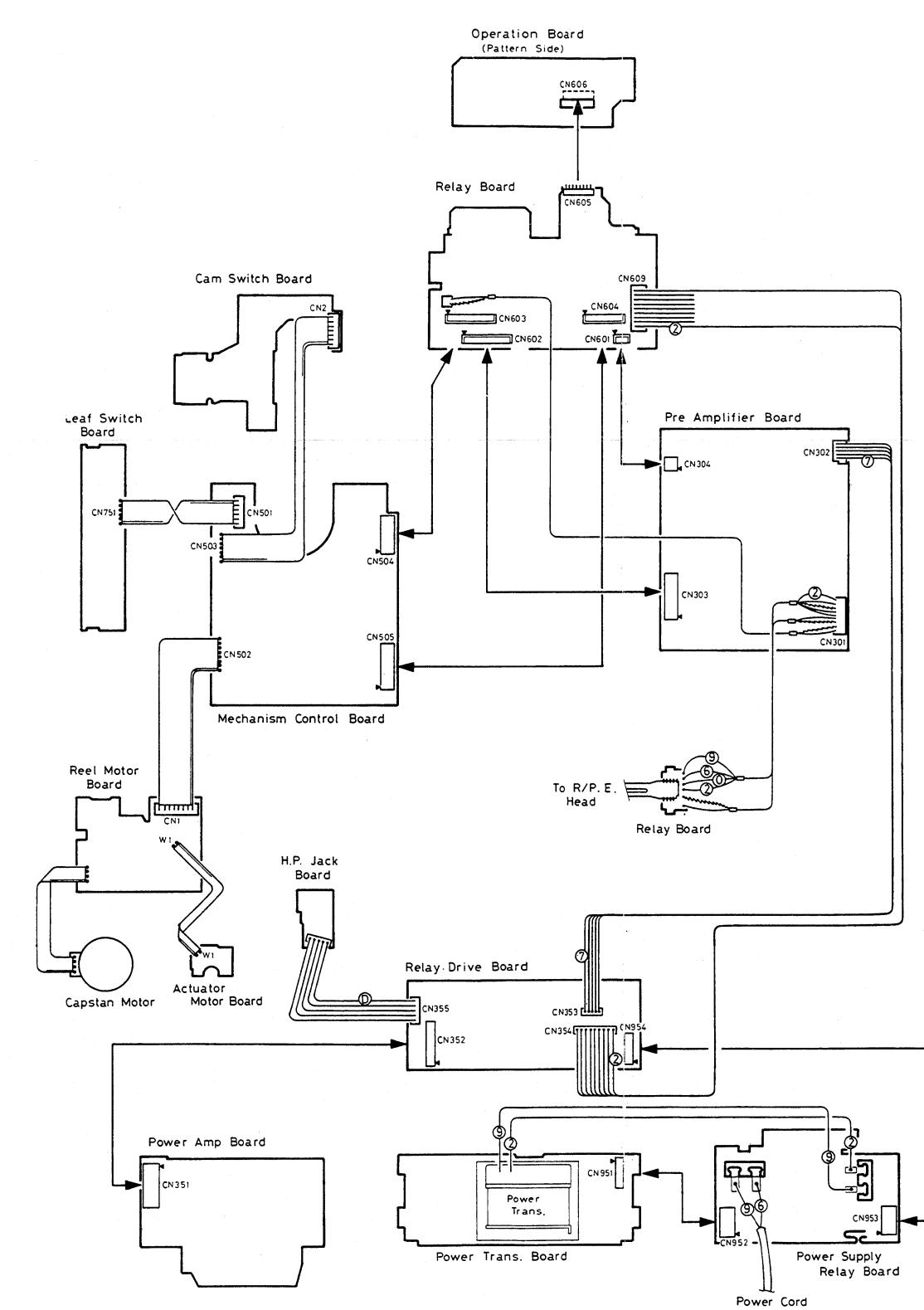
Fig. 9-2

## 10 Wiring Connections

### ■ CD Receiver Section



### ■ Tape Deck, Amplifier Section



Color codes are shown below.

1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Grey
9	White
0	Black

Fig. 10-1

Fig. 10-2

# 11 Standard Schematic Diagram and Location of P.C. Board Parts

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

■ Microcomputer, LCD Display Section : Drawing No. VDH9159-005SV/UX-1B/E/G/GE/GZ

A  
B  
C  
D  
E  
F  
G

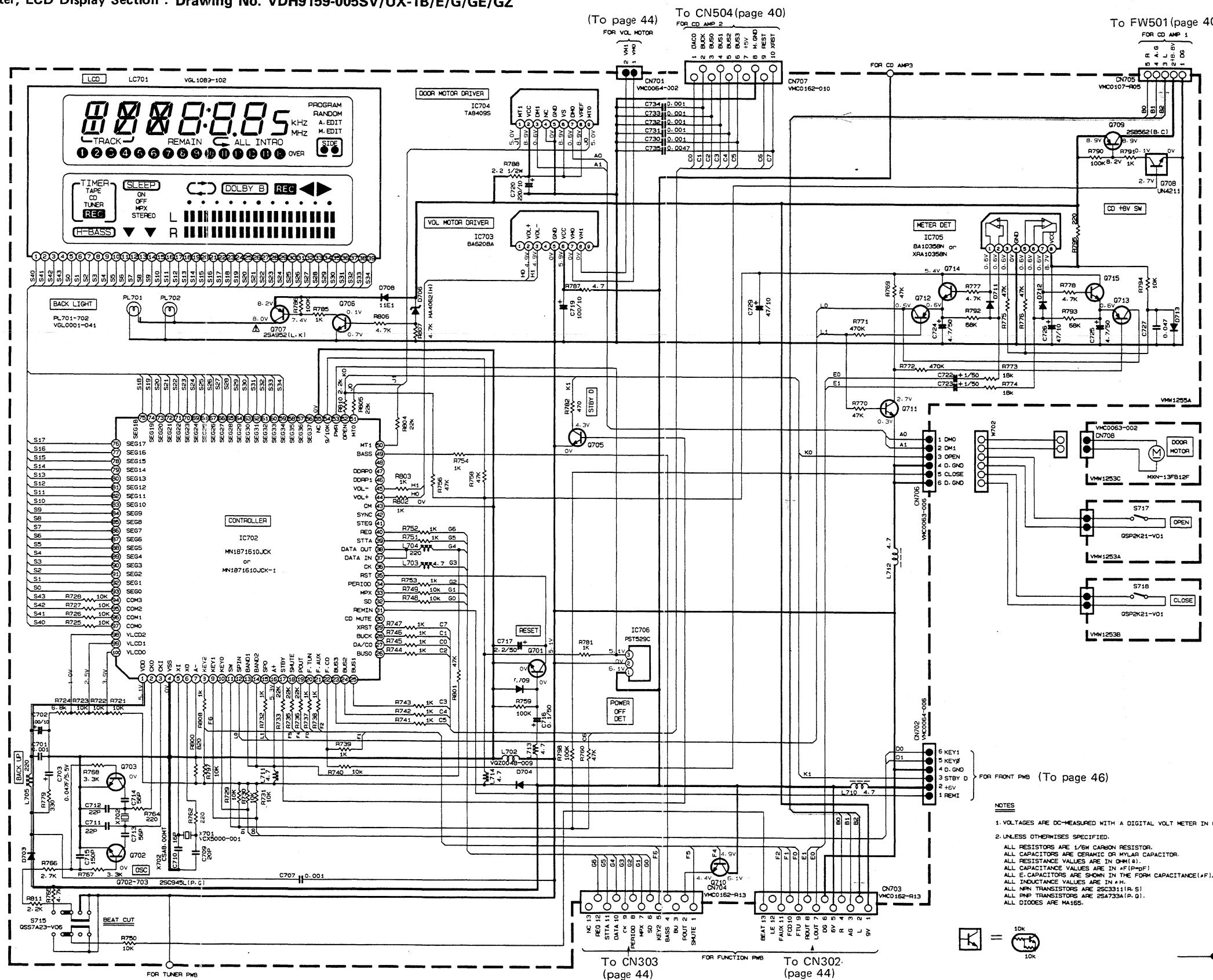


Fig. 11-1

1                   2                   3                   4                   5                   6                   7                   8                   9                   10

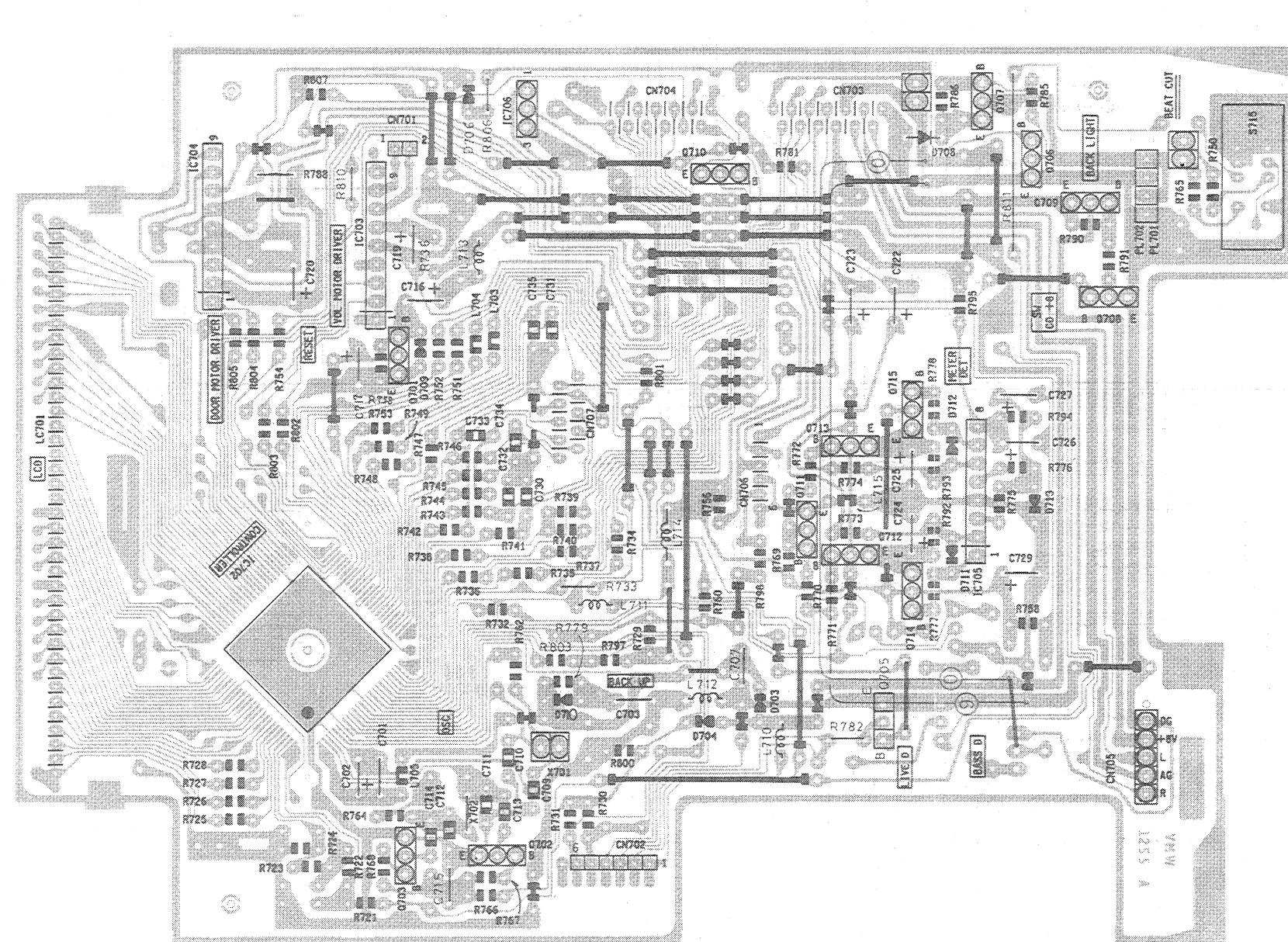


Fig. 11-2

■ Microcomputer, LCD Display P.C. Board : Drawing No. VMW1255A

■ Door Close Switch P.C. Board :  
Drawing No. VMW1253A

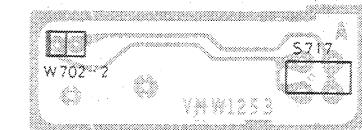


Fig. 11-3

■ CD Door Open Switch P.C. Board :  
Drawing No. VMW1253B

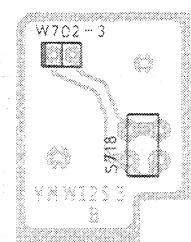


Fig. 11-4

■ CD Door Motor P.C. Board :  
Drawing No. VMW1253C

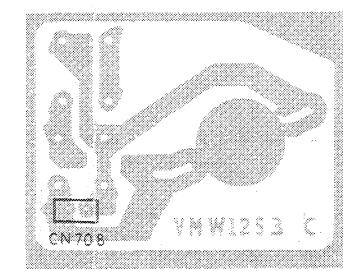


Fig. 11-5

■ Jack P.C. Board :  
Drawing No. VMW1253E

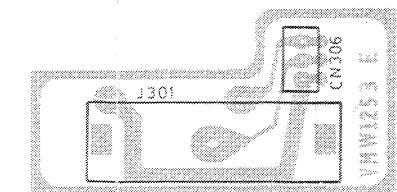


Fig. 11-6

1 2 3 4 5 6 7 8 9 10

## ■ CD Control Section : Drawing No. VDH9159-005CV/UX-1B/E/G/GE/GI

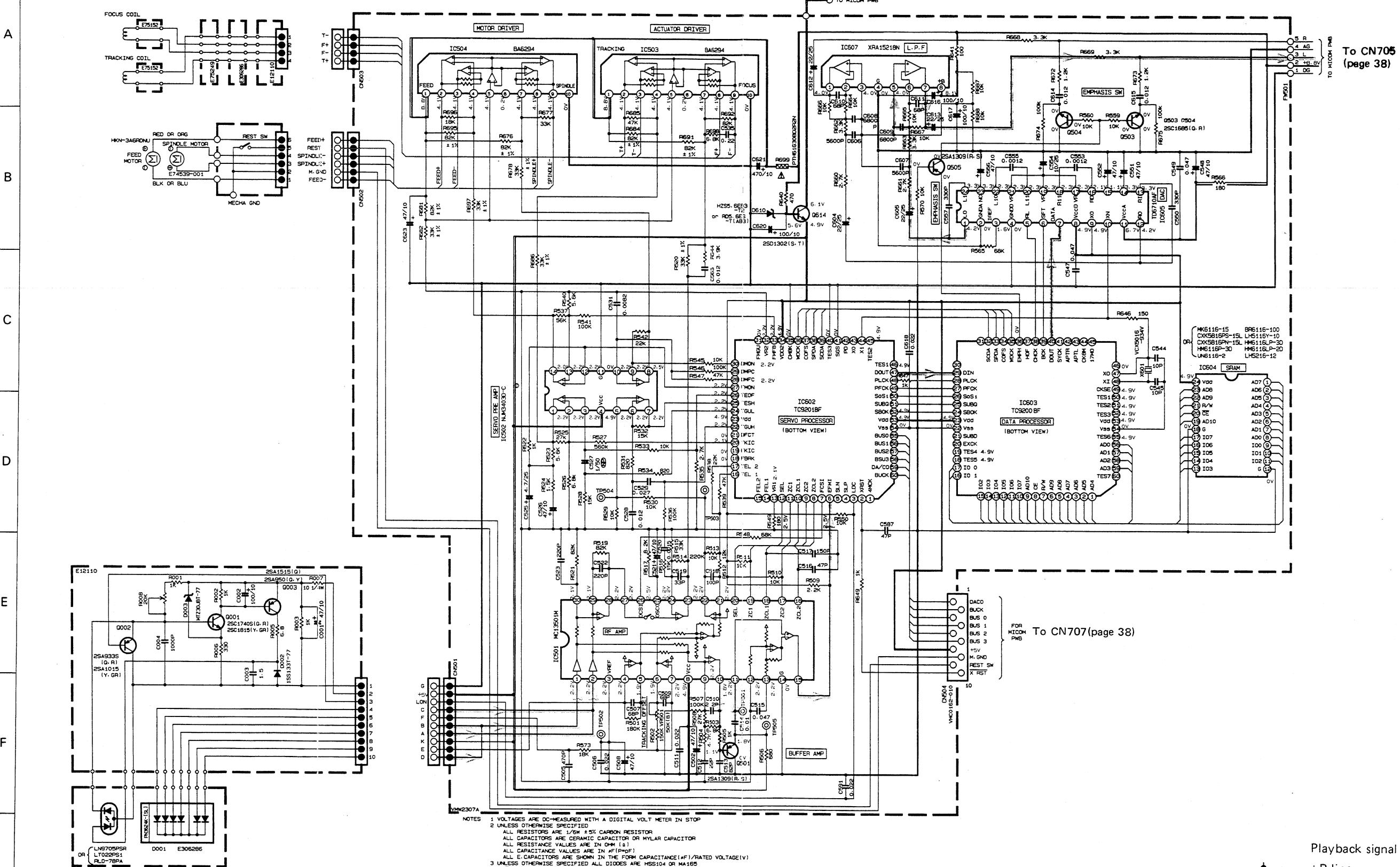


Fig. 11-7

1 2 3 4 5

## ■ Tuner P.C. Board : Drawing No. VMW2326/UX-1B/E

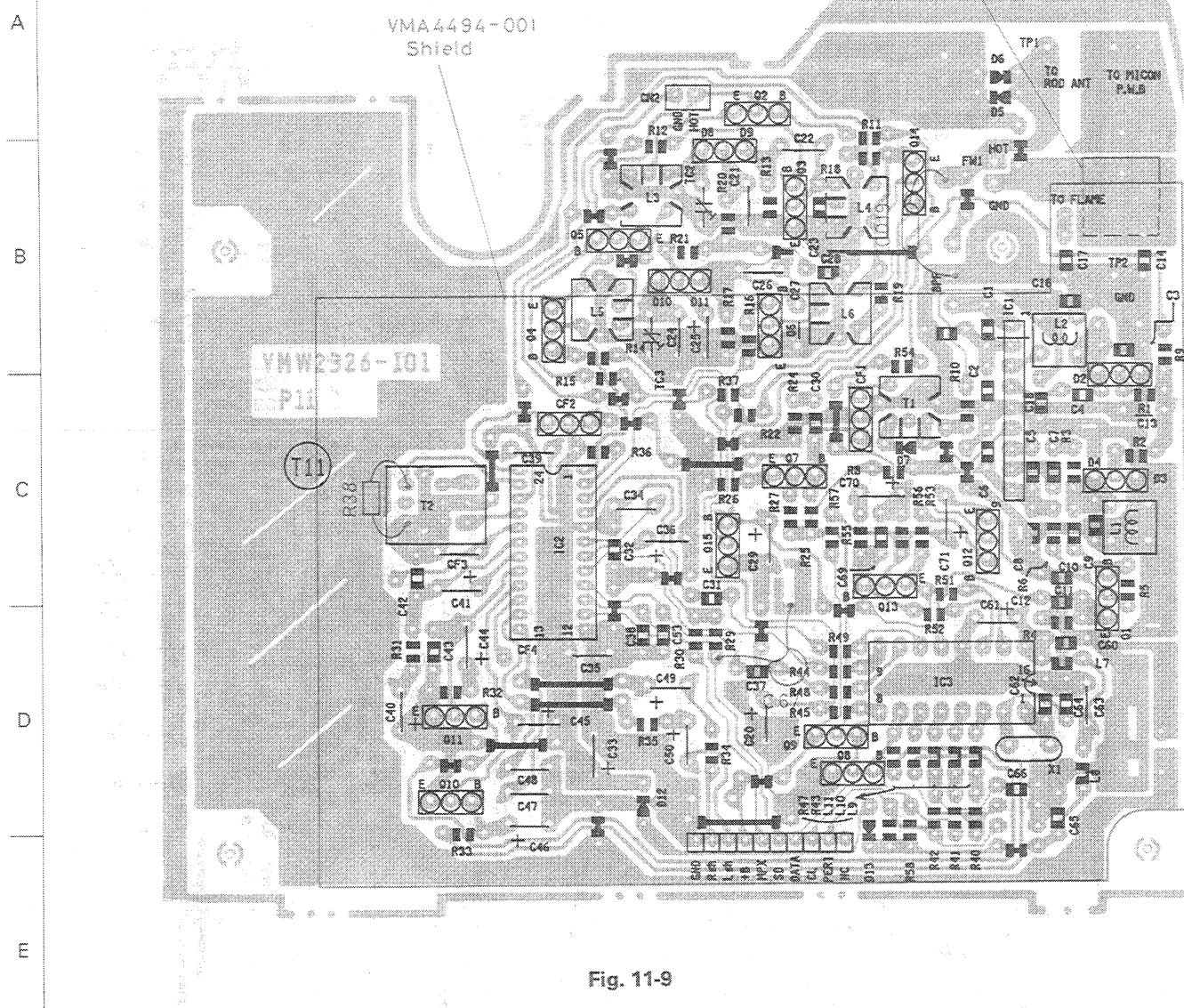
PU59915-105  
Spacer

Fig. 11-9

## ■ Antenna Terminal Board : Drawing No. VMW2339A

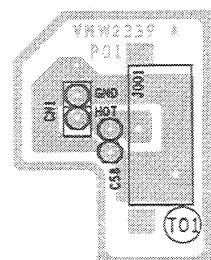


Fig. 11-10

■ CD Control P.C. Board : Drawing No. VMW2307/UX-1E

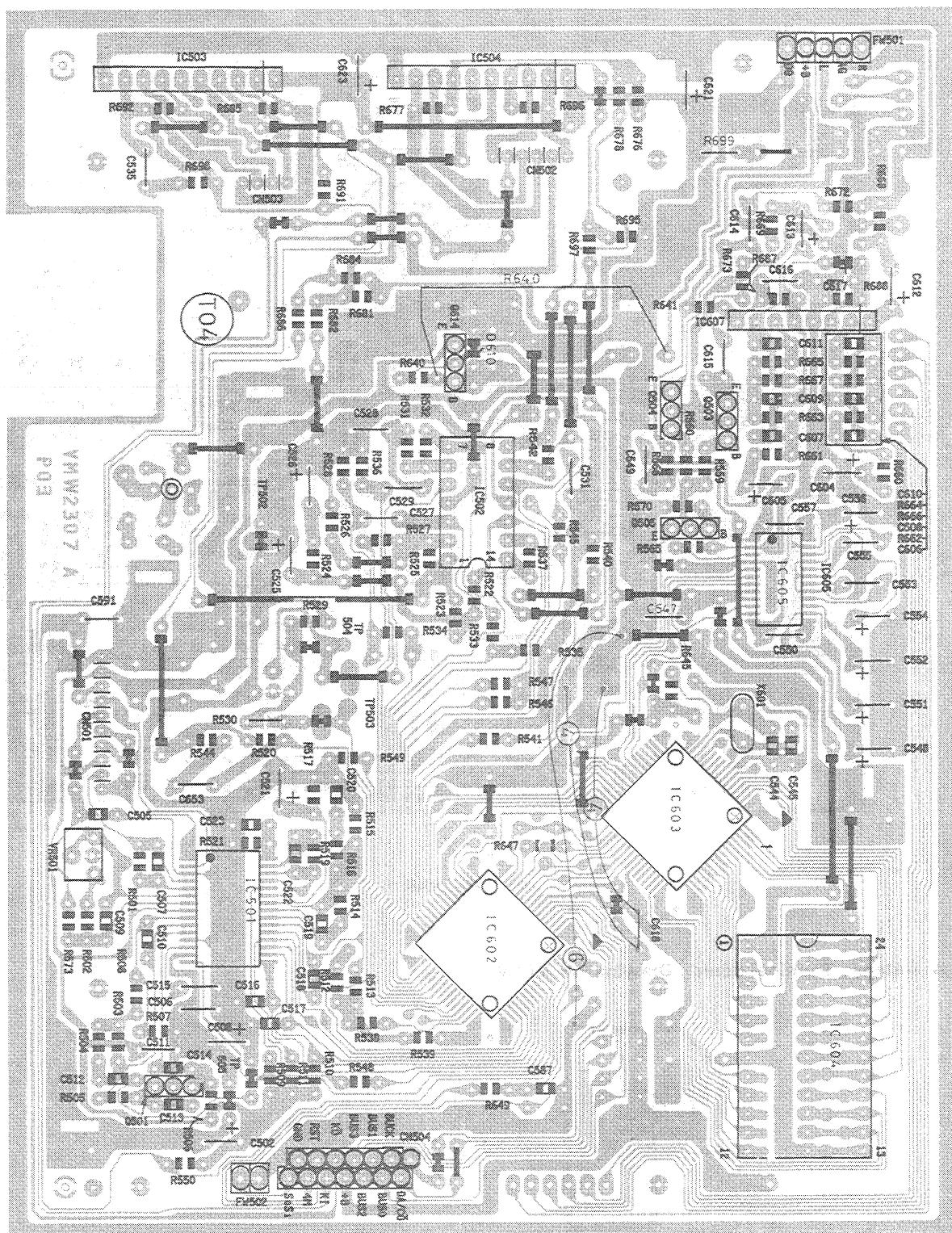
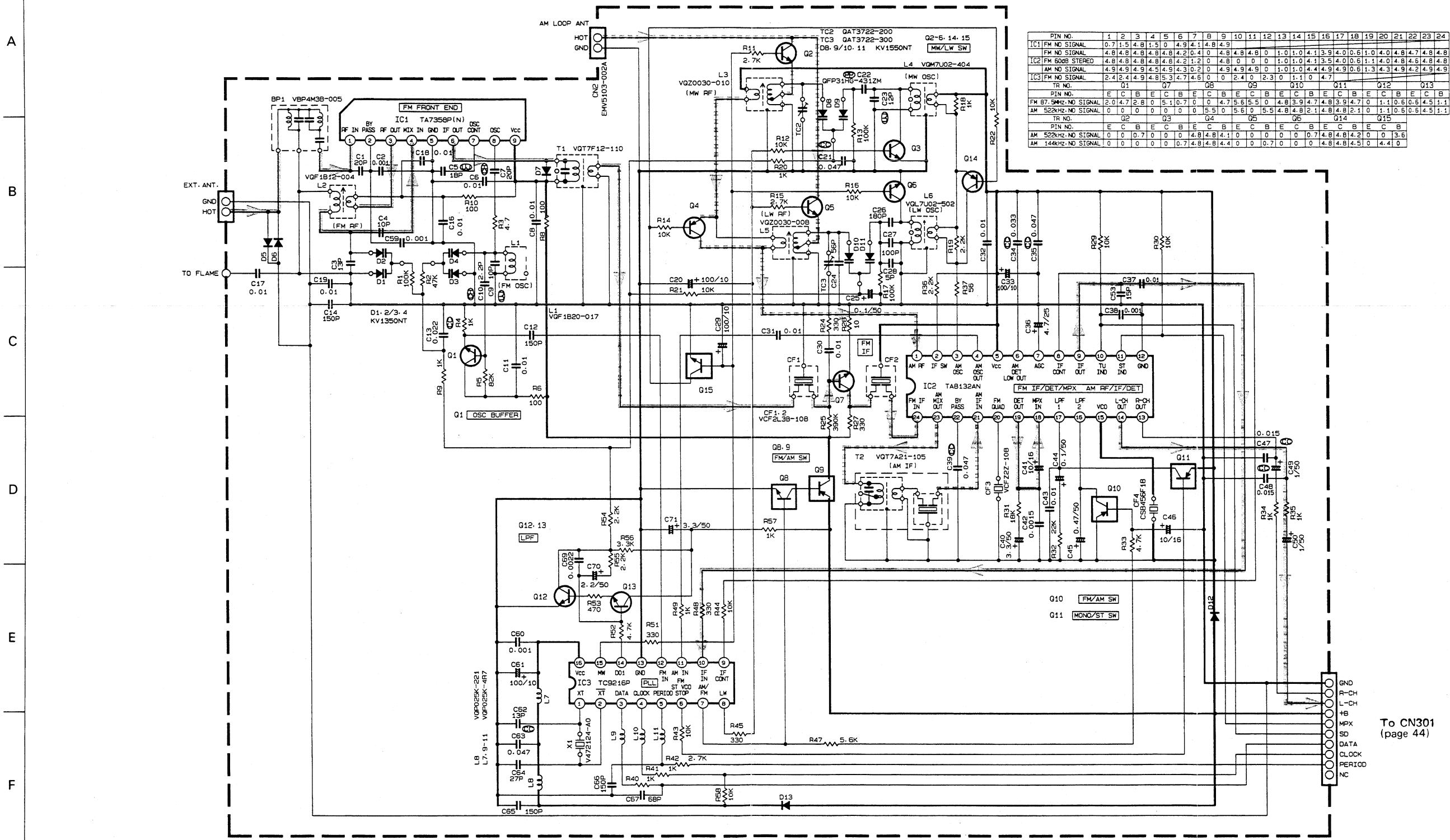


Fig. 11-8

1 2 3 4 5 6 7 8 9 10

## ■ Tuner Section : Drawing No. VDH9159-005TW/UX-1B/E



NOTES  
 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.  
 2. ALL RESISTORS ARE 1/8W ±5% CARBON RESISTOR.  
 3. ALL RESISTANCE VALUES ARE IN OHM (Ω).  
 4. ALL CAPACITANCE VALUES ARE IN μF (μFD).  
 5. ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (A)/RATED VOLTAGE (V)  
 6. SI DIODES (■) ARE ALL MA165 THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS 1SS254T OR HSS104TJ.  
 7. PARTS NO. OF TRANSISTOR ARE AS FOLLOWS:  
 Q1 2SC1923(D)  
 Q5, 8, 12-13 2SC3311(R, S)  
 Q3, 7 2SC2839(E)  
 Q6 DTC114YN  
 Q4, 14 2SA1309(R, S)  
 Q9-11 DTA114YS  
 Q2-5 2SD1302(S, T)  
 Q15 DTC124ES

8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.  
 DTC114YS E O—OC 47K 10K 47K 10K  
 DTA114YS E O—OC 47K 10K 47K 10K  
 DTC124ES E O—OC 22K 22K 22K 22K  
 BLANK NO.  
 R 7, 23, 28, 38, 39, 46, 50  
 C 15, 51, 52, 54-58, 68

Playback signal line  
+B line

Fig. 11-11

1 2 3 4 5 6 7 8 9 10

## ■ Function Section : Drawing No. VDH9159-006BV/UX-1E/B

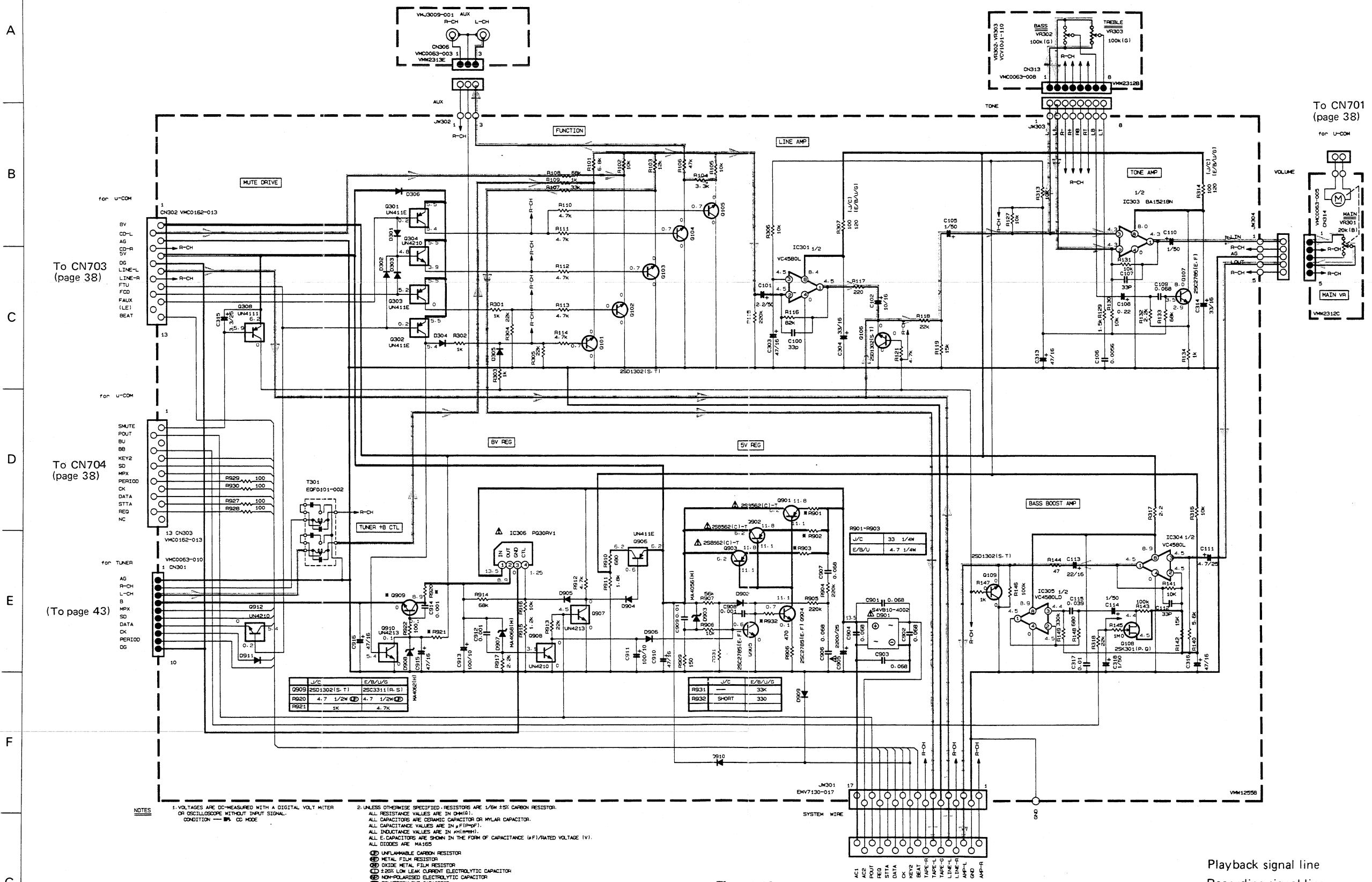


Fig. 11-12

To J352(page 48)

Playback signal line  
Recording signal line  
+B line

1 2 3 4 5 6 7 8 9 10

A

■ Function P.C. Board : Drawing No. VMW1255B/UX-1E

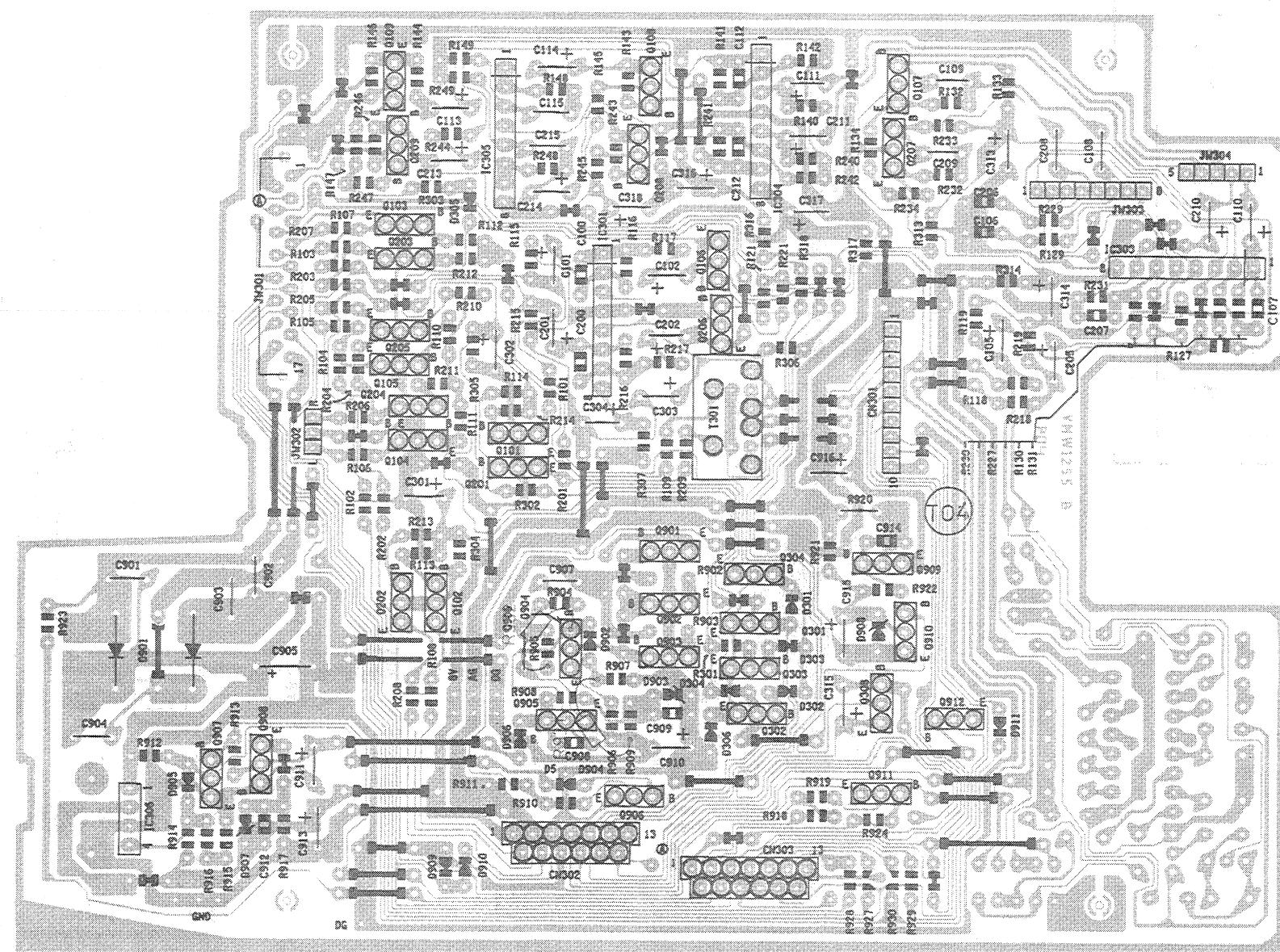


Fig. 11-13

■ Electric Volume P.C. Board :  
Drawing No. VMW2312C

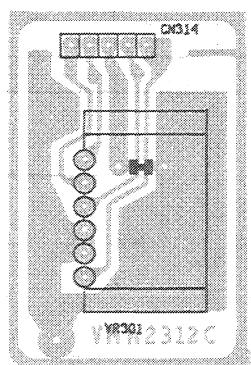


Fig. 11-14

■ Tone Quality Control Volume P.C. Board :  
Drawing No. VMW2312B

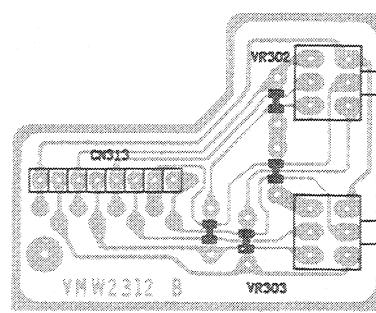


Fig. 11-15

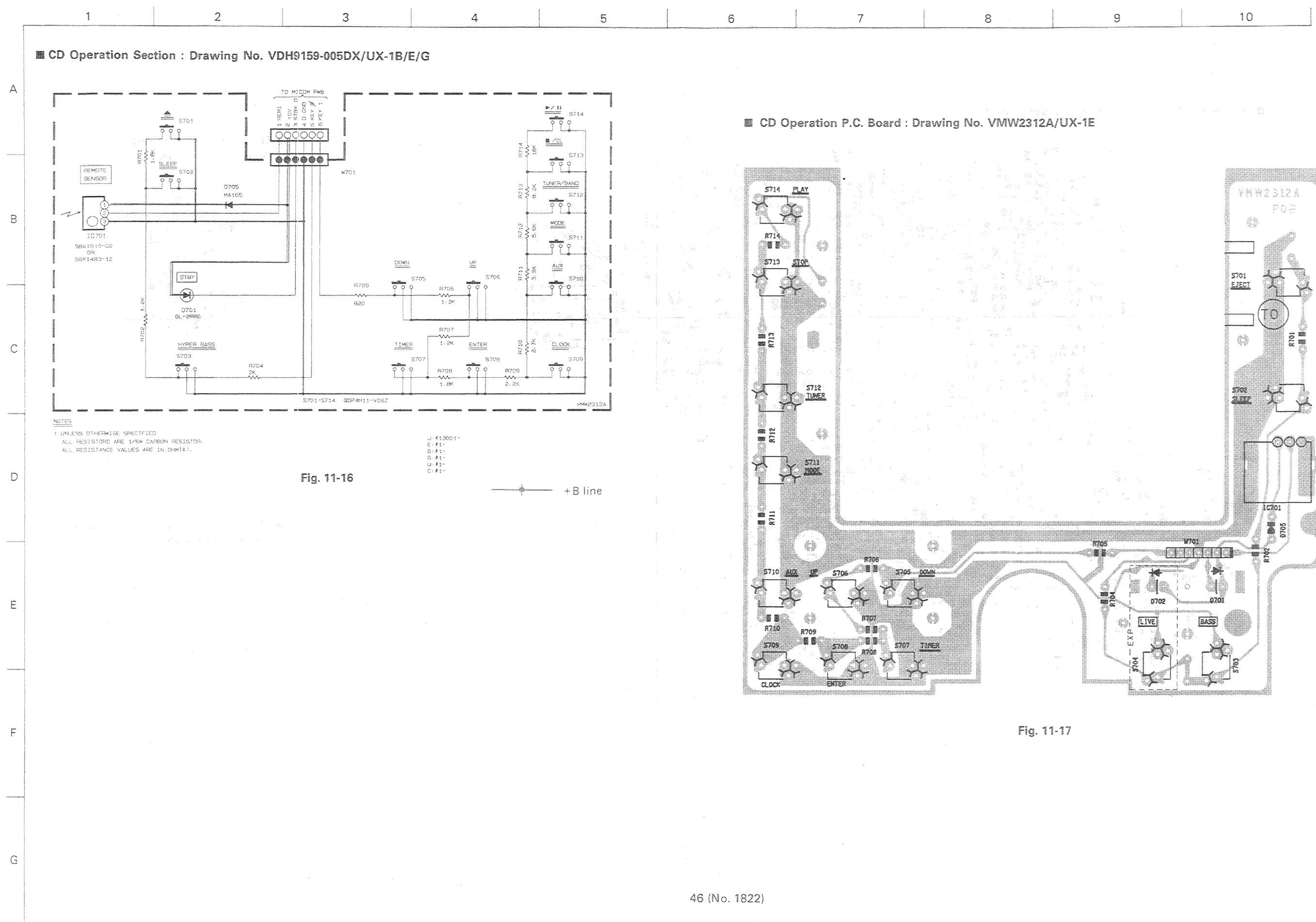


Fig. 11-16

+ B line

Fig. 11-17

1 2 3 4 5 6 7 8 9 10

## ■ Tape Deck, Pre-amplifier/Mechanism Control Section : Drawing No. VDH9159-005AV/UX-1E/B/G

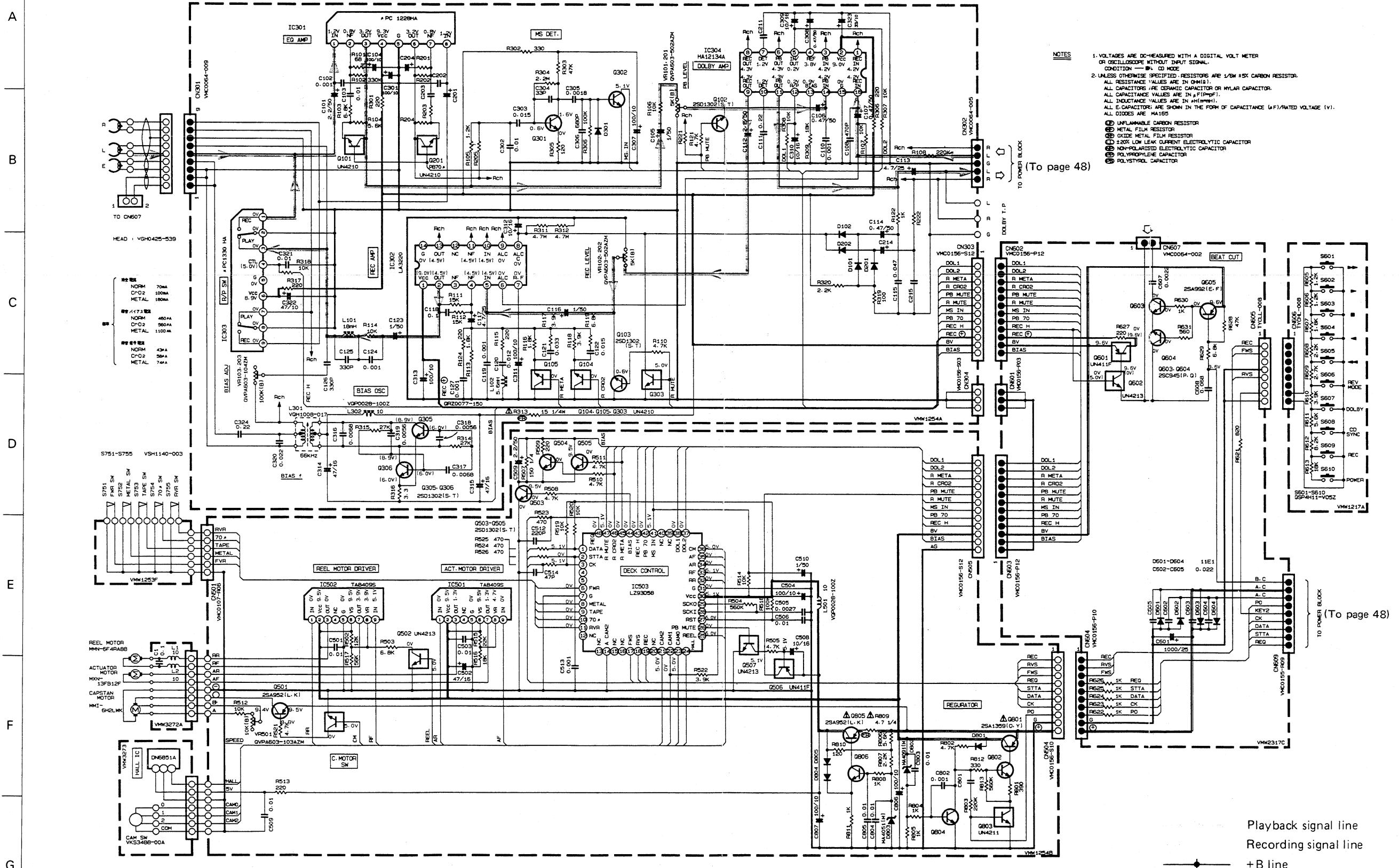


Fig. 11-18

1 2 3 4 5 6 7 8 9 10

## ■ Power Supply/Power Amplifier Section : Drawing No. VDH9159-006AW/UX-1B/E/G

A

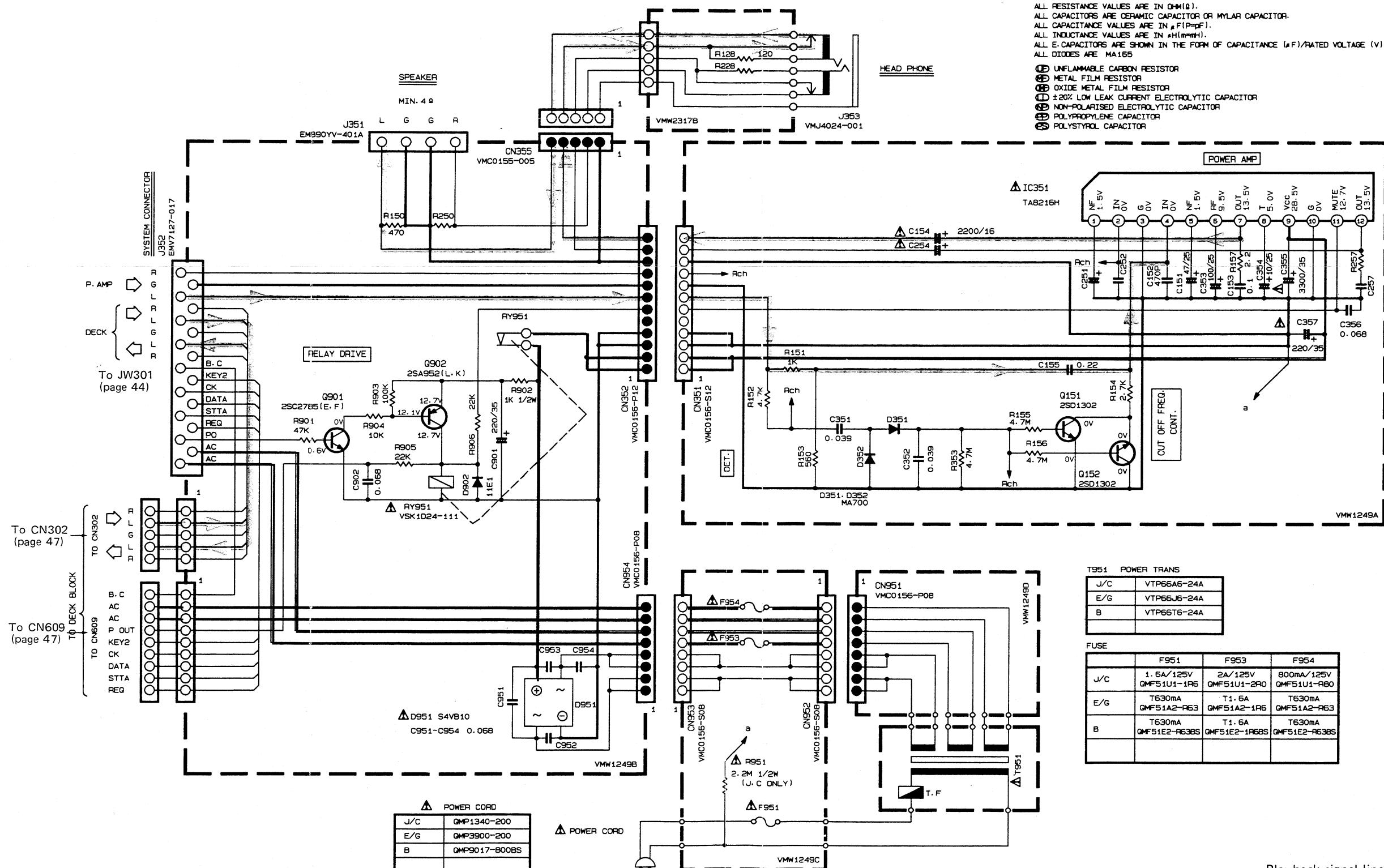


Fig. 11-19

1                          2                          3                          4                          5                          6                          7                          8                          9                          10

■ Pre-amplifier P.C. Board : Drawing No. VMW1254A

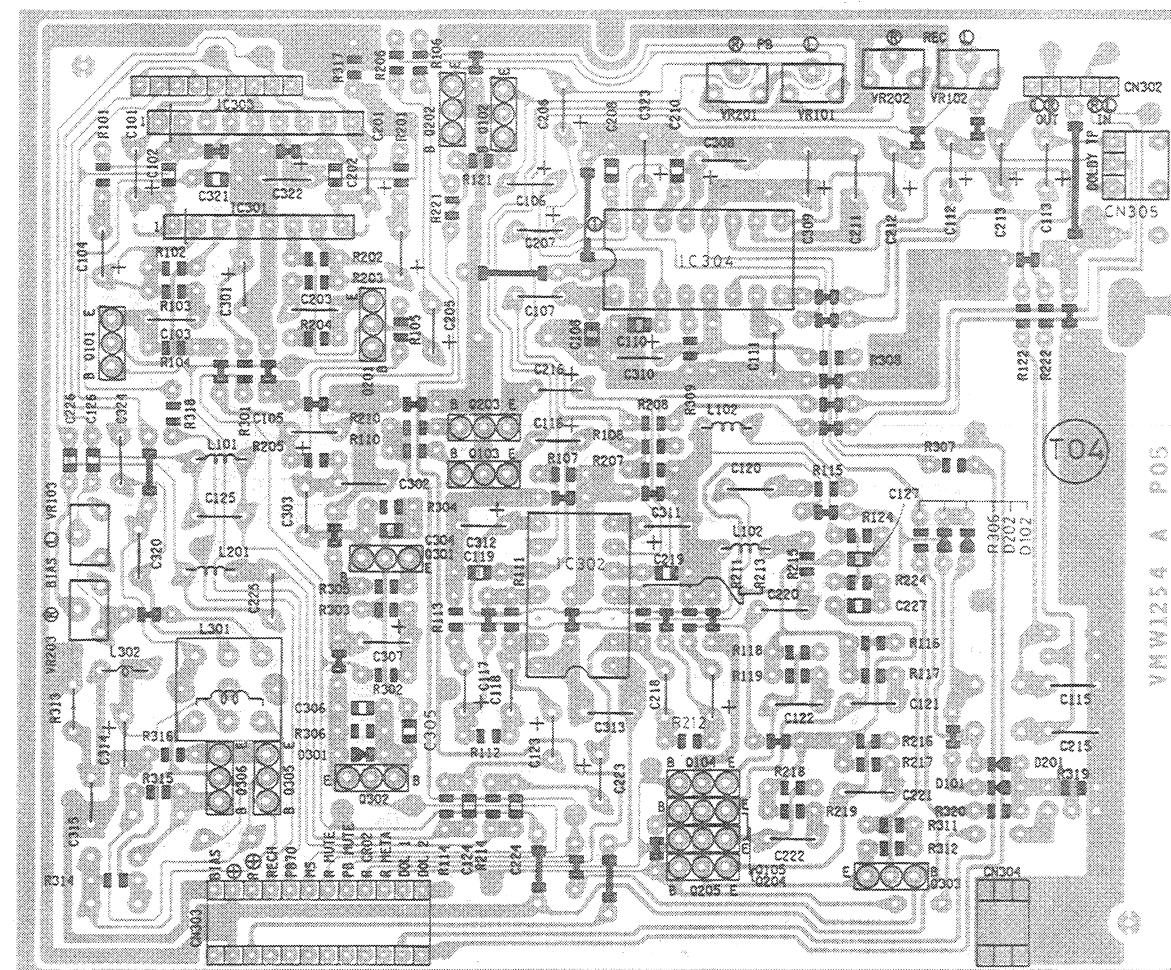


Fig. 11-20

■ Relay P.C. Board : Drawing No. VMW2317C/UX-1B

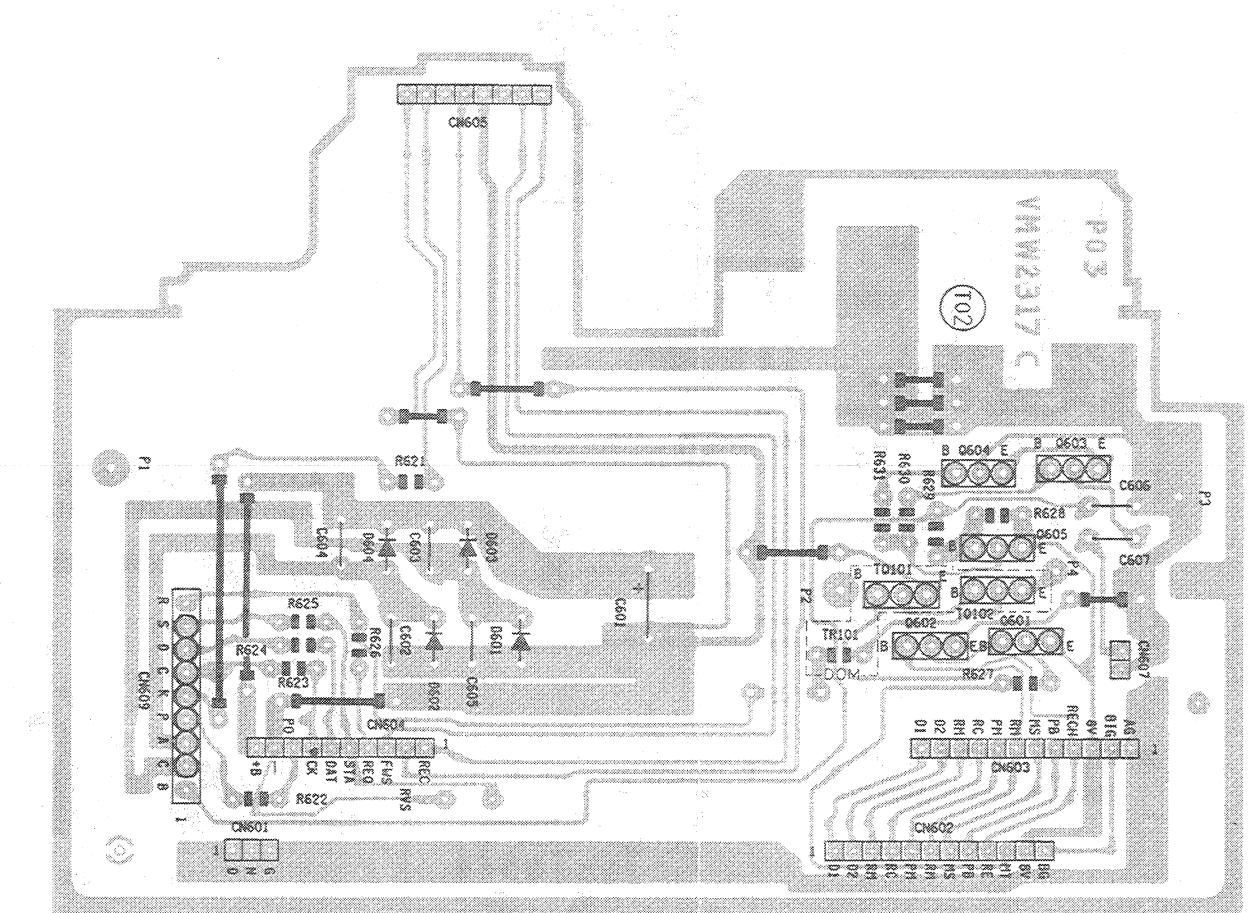


Fig. 11-22

■ Headphone Jack P.C. Board  
Drawing No. VMW2317B

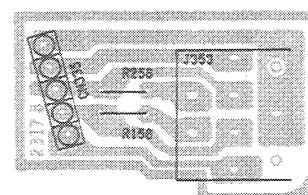


Fig. 11-21

■ Tape Deck Operation Key Switch P.C. Board : Drawing No. VMW2317A/UX-1E

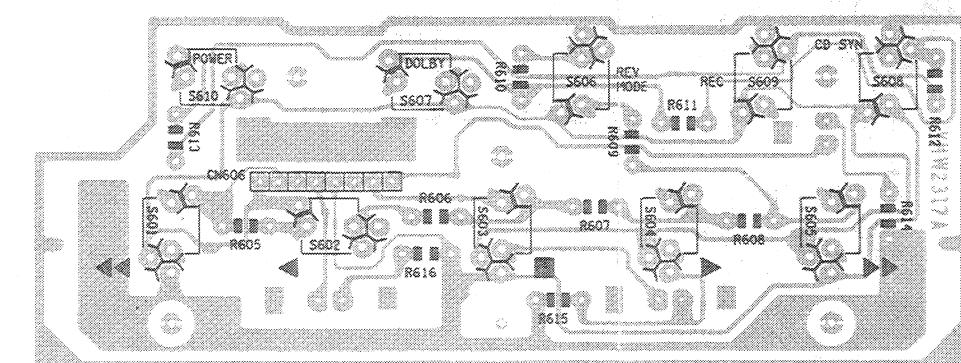


Fig. 11-23

1 2 3 4 5 6 7 8 9 10

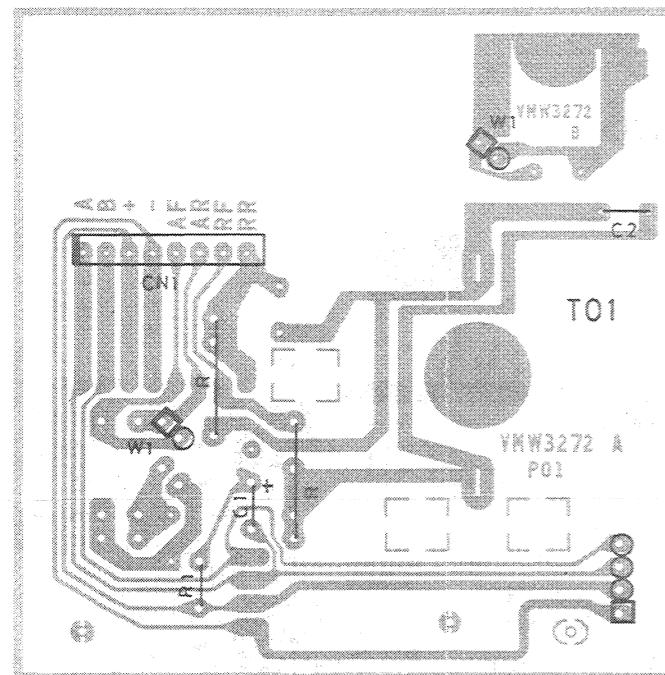
**■ Reel Motor P.C. Board : Drawing No. VMW3272**

Fig. 11-24

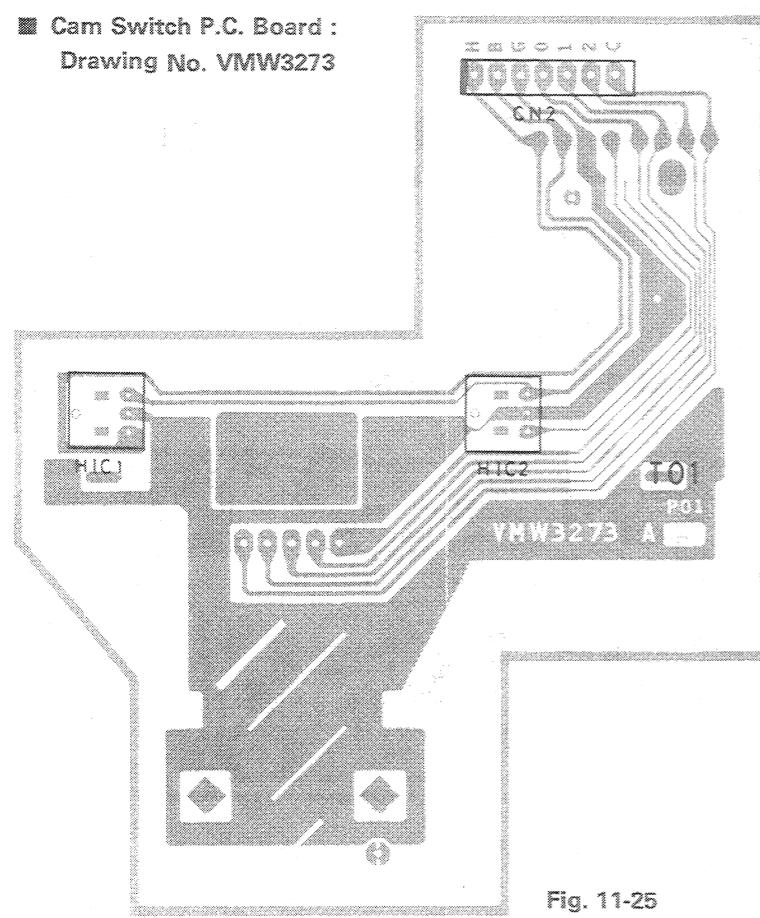
**■ Cam Switch P.C. Board : Drawing No. VMW3273**

Fig. 11-25

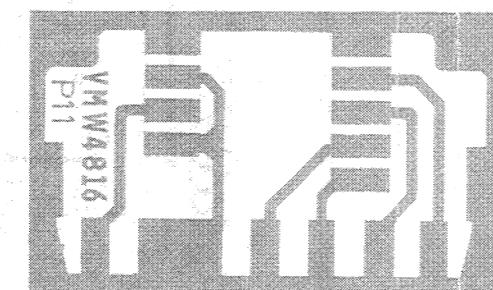
**■ Actuator Motor P.C. Board : Drawing No. VMW4816**

Fig. 11-26

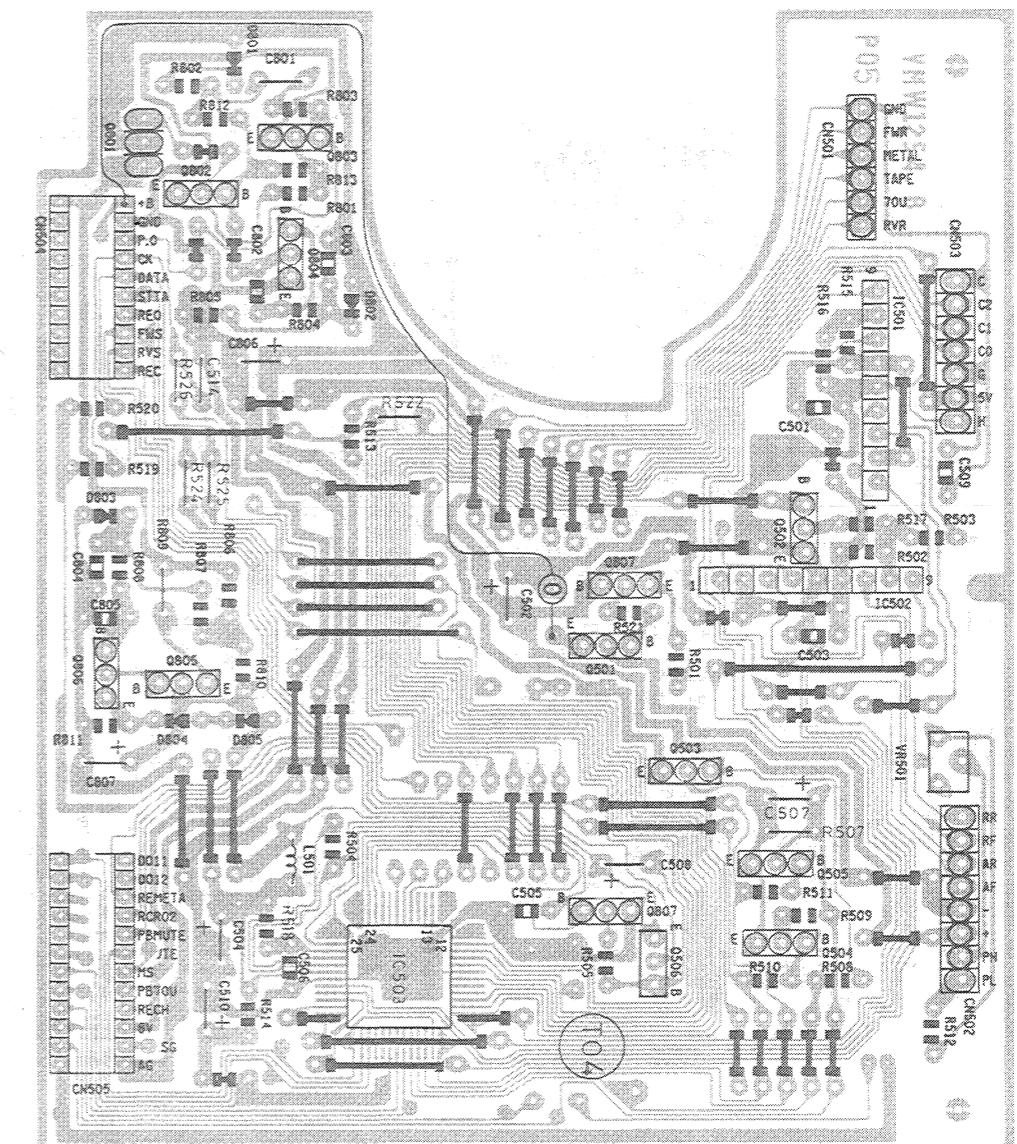
**■ Mechanism Control P.C. Board : Drawing No. VMW1254B/UX-1E**

Fig. 11-27

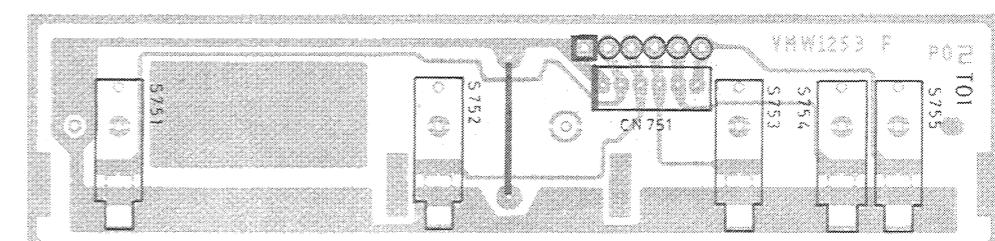
**■ Leaf Switch P.C. Board : Drawing No. VMW1253F/UX-1E**

Fig. 11-28

1 2 3 4 5 6 7 8 9 10

A

■ Relay Drive P.C. Board : Drawing No. VMW1249B

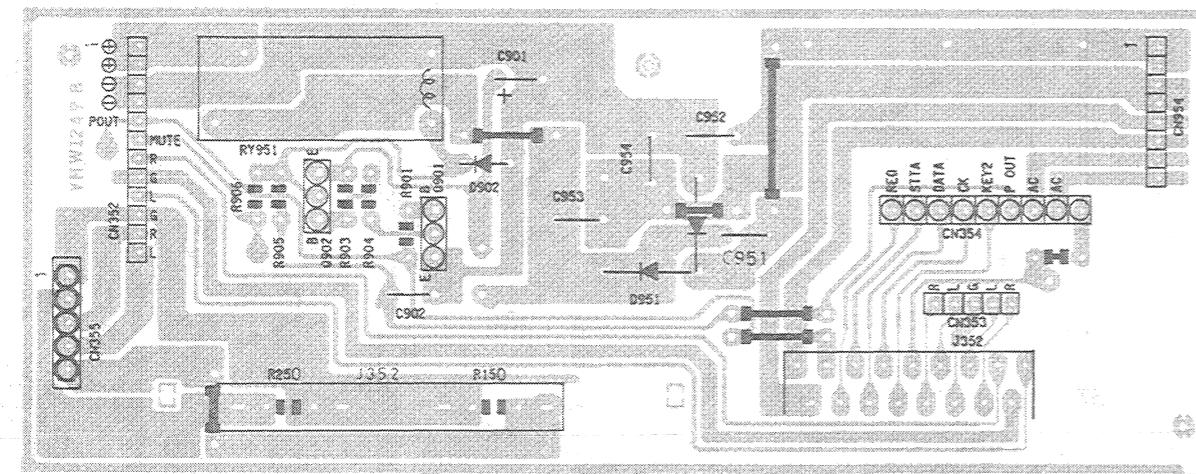


Fig. 11-29

B

■ Power Supply, Relay P.C. Board : Drawing No. VMW1249C

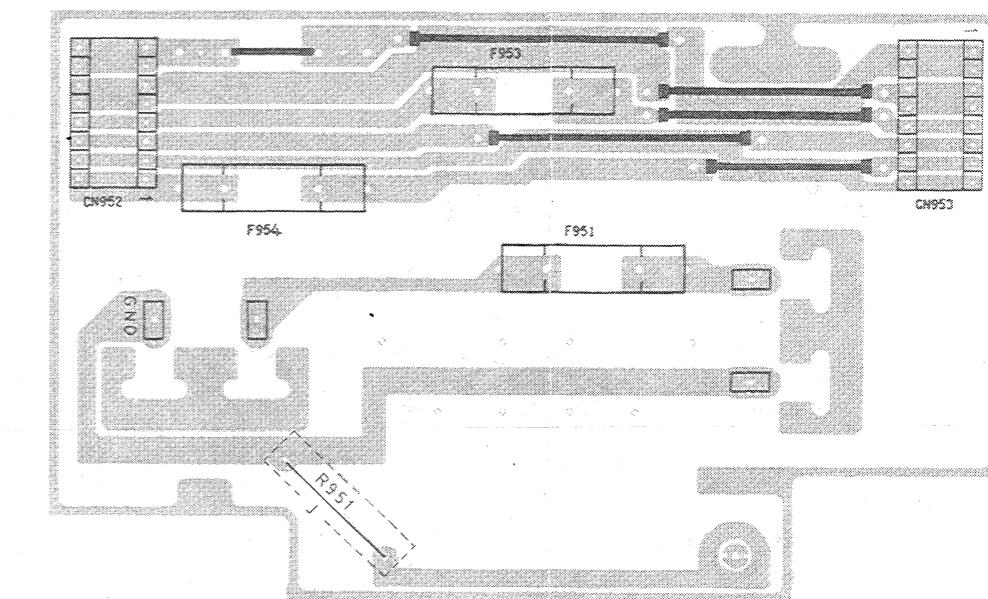


Fig. 11-31

C

■ Power Amplifier P.C. Board : Drawing No. VMW1249A

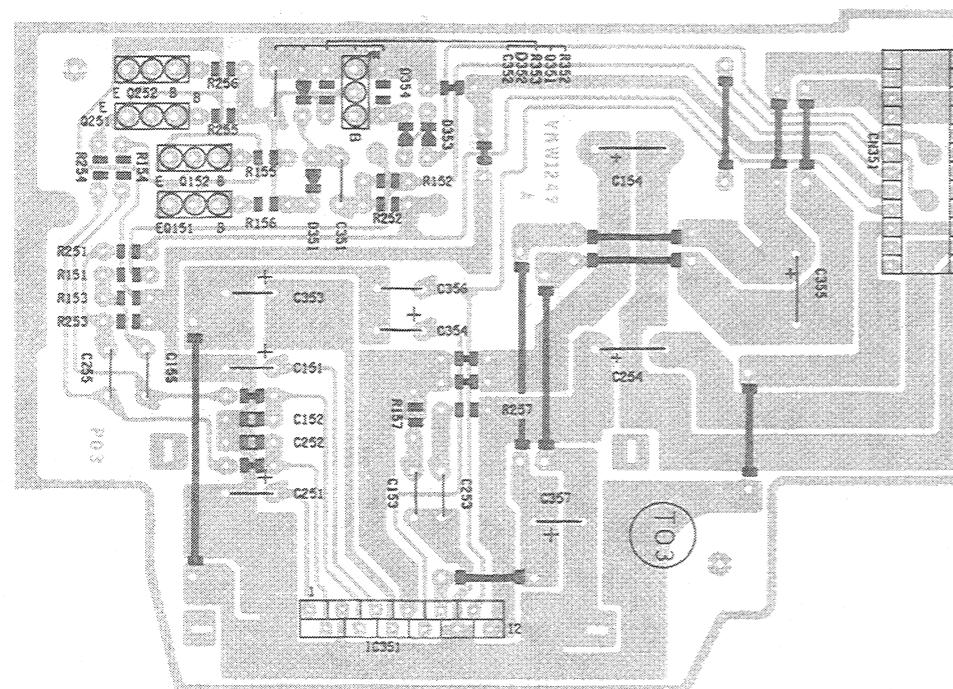


Fig. 11-30

D

■ Power Supply, Relay P.C. Board : Drawing No. VMW1249D

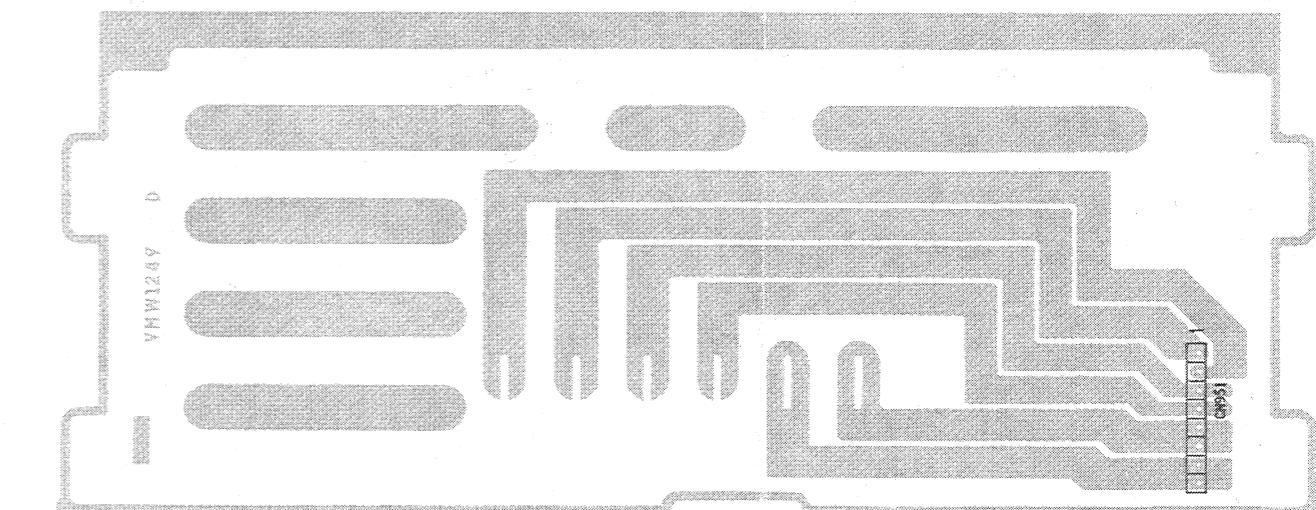
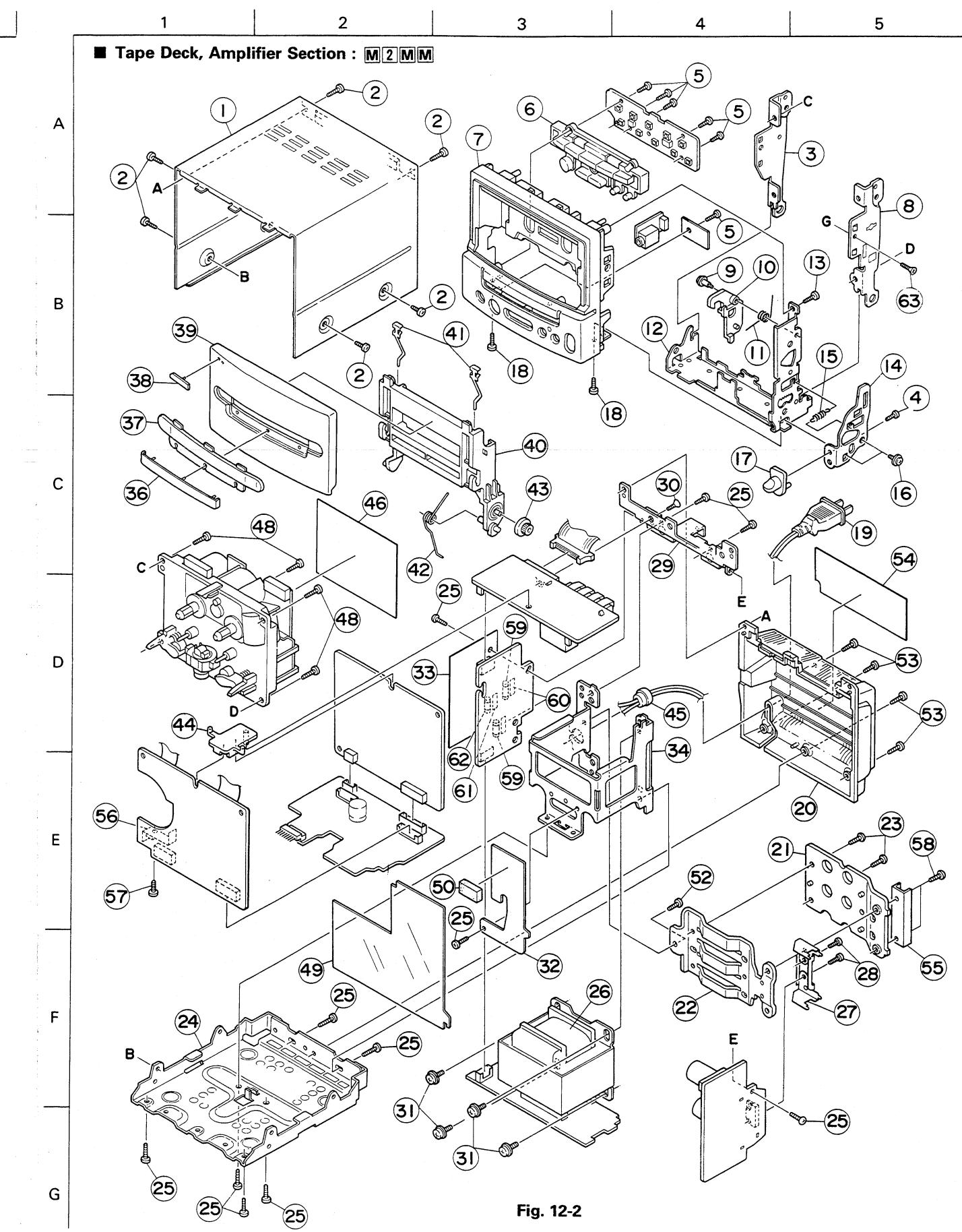
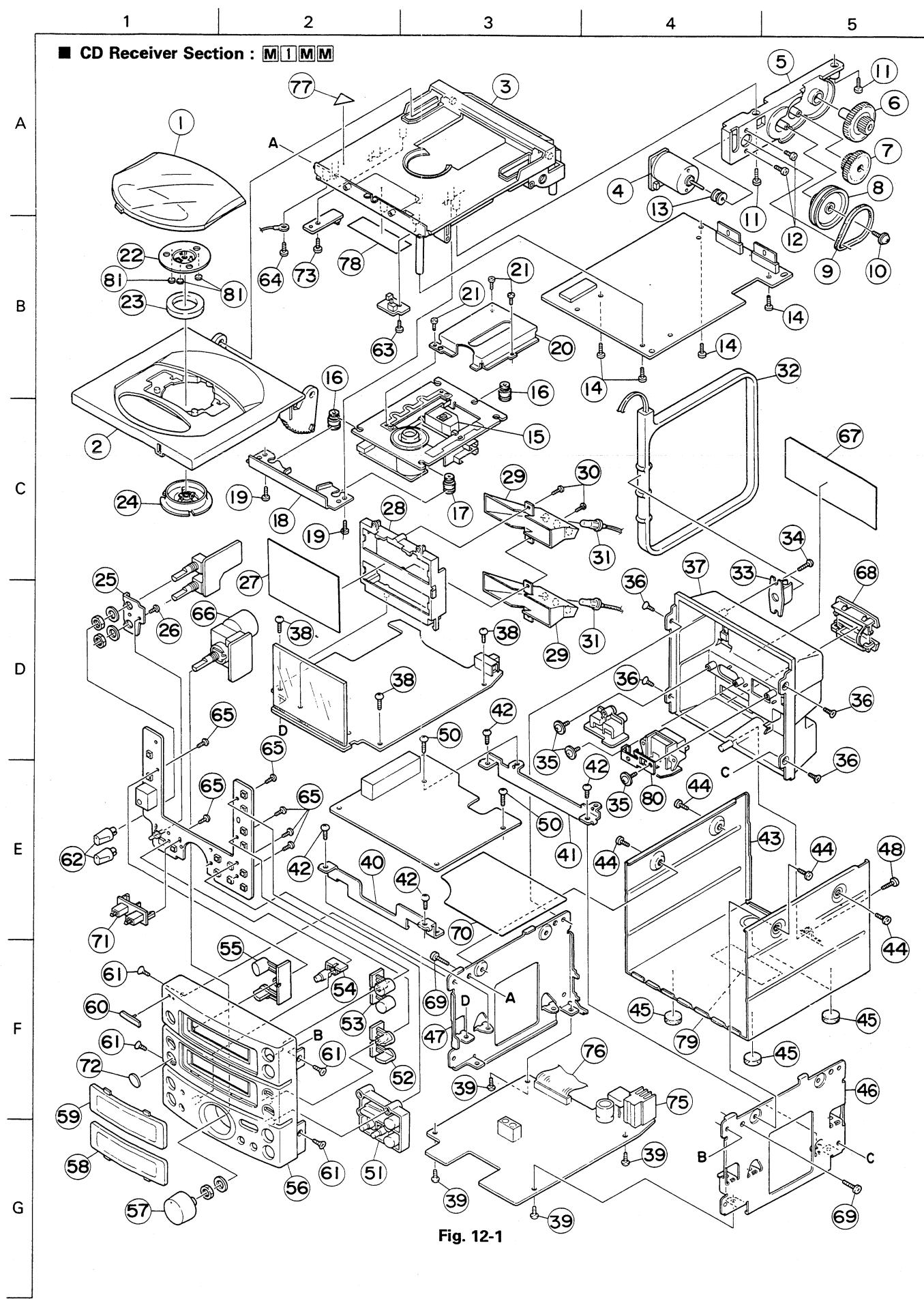


Fig. 11-32

## 12 Exploded View of Enclosure Component Parts and Parts List



## ■ CD Receiver Section

Block No. M1MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	56,58,59 72	ZCUXR1K-FBK	FRONT CABINET ASS'Y		1
	1	VJT3311-003	CD DOOR LENS		1
	2	VJT2265-003	CD DOOR		1
	3	VJD1149-002UL	CD CASE		1
	4	MXN-13FB12F	DC MOTOR ASS'Y	CD DOOR	1
	5	YVH3659-001	GEAR BRACKET		1
	6	VYH7358-001	GEAR(B)		1
	7	VYH7357-001	GEAR(A)		1
	8	VYH7356-002	PULLEY		1
	9	VKB3000-144	BELT		1
	10	GBSF3006Z	SCREW	PULLEY/GEAR BKT	1
	11	SBSF3010Z	SCREW	CD CASE/GEAR BKT	2
	12	SPSP3004Z	SCREW	DC MOTOR/GEAR BKT	2
	13	E75054-001	PULLEY	FOR DC MOTOR	1
	14	SBSF3010Z	SCREW		4
	15	EXL-M5C	CD MECHA		1
	16	E75609-001	INSULATOR	FOR CD MECHA.	2
	17	E75609-002	INSULATOR	FOR CD MECHA.	1
	18	VYH7297-101	HOLDER		1
	19	SBSF3010Z	SCREW	HOLDER/CD CASE	2
	20	VJD5318-002	PICK COVER		1
	21	SDST2006M	SCREW	PICKUP COVER	3
	22	VYH3660-003	CLAMPER PLATE		1
	23	VYH7313-001R	MAGNET		1
	24	E306835-001	CLAMPER		1
	25	VYH7348-002	VOLUME BRACKET		1
	26	SBSF2610Z	SCREW	VOLUME/BRACKET	1
	27	VYTT575-001	FILTER	FOR LCD	1
	28	VYH3663-002	LCD HOLDER		1
	29	VYH7365-002	LAMP CASE		2
	30	SBSF2606Z	SCREW	LAMP CASE	2
	31	VGZ0001-041	P.LAMP	PL701	1
		VGZ0001-041	P.LAMP	PL702	1
	32	VQZ0029-005	AM LOOP ANTENA		1
	33	VJD5335-001	LOOP ANT HOLDER		1
	34	SDSF3010M	SCREW		1
	35	E65923-003	T.SCREW	JACK PCB/REAR PAN	3
	36	SSST3006Z	SCREW	REAR/CHASSIS	4
	37	VJC1962-006	REAR PANEL(T)		1
	38	SBST3006Z	SCREW	DISPLAY BOARD	3
	39	SBST3006Z	SCREW	FUNCTION BOARD	4
	40	VYH7349-001	CHASSIS BRACKET	FRONT	1
	41	VYH7350-001	CHASSIS BRACKET	REAR	1
	42	SBST3006Z	SCREW	S.CHASSIS, BRACKET	4
	43	VJC2411-002	METAL COVER		1
	44	SDST3006M	SCREW	METAL COVER	4

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	45	VJF4003-003	FOOT		4
	46	VYH3657-001	SIDE CHASSIS(R)		1
	47	VYH3656-001	SIDE CHASSIS(L)		1
	48	SBSF3010M	T.SCREW	METAL COVER	1
	50	SBST3006Z	SCREW	TUNER BOAD, CHASSI	2
	51	VXP3418-001	PUSH KNOB	AUX, CLOCK/DISPLAY	1
	52	VXP5029-001	PUSH KNOB	TIMER/BAND, FM MOD	1
	53	VXP5027-001	PUSH KNOB	PLAY/PAUSE, STOP	1
	54	VXP5030-002	PUSH KNOB	HYPER-BASS	1
	55	VXP5026-001	PUSH KNOB	OPEN/CLOSE, SLEEP	1
	56	VJC1961-003	FRONT PANEL(T)		1
	57	VXL4375-004	VOLUME KNOB		1
	58	VJT4181-003	LCD LENS(DOWN)		1
	59	VJT4180-001	LCD LENS(UP)		1
	60	PQ42561-2	MARK	JVC	1
	61	SSST3006Z	SCREW	FRONT/CHASSIS	4
	62	VXL4374-001	KNOB	BASS, TREBLE	2
	63	SBSF3006Z	SCREW	SWITCH PCB/CD CAS	1
	64	SBSF3010Z	SCREW	SWITCH BRACKET	1
	65	SBSF2610Z	SCREW	OPERATION BOARD	6
	66	VCV1001-101	VR WITH MOTOR	VR301 MAIN VOLUME	1
	67	VYN9159-101	NAME PLATE		1
	68	YVH3662-001	BUSHING		1
	69	SDSF3008Z	SCREW	CD/CHASSIS UNIT	2
	70	VMA4494-001	SHIELD(TUNER)		1
	71	VYH7363-003	LED HOLDER		1
	72	VYTT574-001	FILTER	REMOTE SENSOR	1
	73	E65923-003	T.SCREW		1
	75	VMH4032-H25B	HEAT SINK		1
	76	VMP0092-001	SYSTEM WIRE ASY		1
	77	E71541-001	E.I. LASER MARK	CD CASE SERFACE	1
	78	VND4220-001	LASER CAUTION	CD CASE BACK	1
	79	VND4221-001	CLASS 1 LABEL	BOTTOM	1
	80	VYH7519-001	JACK BRACKET		1
	81	VYSH201-004	SPACER	CLAMPER COVER	3

## ■ Tape Deck, Amplifier Section

Block No. M2MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	36~39 40, 41	ZCUXD1K-CLBK ZCUXD1K-CH	CASSETTE DOOR ASS'Y CASSETTE HOLDER ASS'Y		1 1
	1 2 3 4 5	VJC2412-001 SDST3008M VYH7351-001 SSSF2608Z SBSF2606Z	TOP COVER SCREW MECHA HOLDER L SCREW SCREW	EJECT KNOB FRONT+PCB	1 6 1 1 5
	6 7 8 9	SBSF2606Z VXP3417-001 VJC1959-003 VYH7352-001 VKZ4341-001	SCREW BUTTON FRONT PANEL MECHA HOLDER R SPECIAL SCREW	H.PHONES #F EJECT ARM	1 1 1 1

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
10	VYH7347-001	EJECT ARM		1
11	VKW4938-001	TORTION SPRING		1
12	VYH7345-002	DOOR HOLDER		1
13	SDSF3010Z	SCREW	DOOR HOLDER/FRONT	1
14	VYH7346-001	EJECT LEVER		1
15	VKW3002-274	TENSION SPRING	EJECT LEVER	1
16	VKZ4323-002	SCREW	EJECT LEVER	2
17	VXQ4109-001	EJECT KNOB		1
18	SDST3006Z	SCREW	DOOR HOLDER/FRONT	2
19	QMP3900-200	POWER CORD		1
20	VJC1960-005	REAR PANEL (D)		1
21	VYH7361-001	RADIATION (A)		1
22	VYH7362-001	RADIATION (B)		1
23	GBSF3010Z	TAPPING SCREW	HEAT SINK AXB	2
24	VJC3205-001	BOTTOM COVER		1
25	SDST3006Z	SCREW	JACK HOLDER	2
	SDST3006Z	SCREW	SHIELD/TRANS BKT	1
	SDST3006Z	SCREW	JACK HOLDER/PCB	2
	SDST3006Z	SCREW	TRANS BKT	2
	SDST3006Z	SCREW	TRANS BKT	2
26	SDST3006Z	SCREW		2
27	VTP66J6-24A	POWER TRANS	T951	1
28	VYH7360-001	IC HOLDER		1
	SBSF3008Z	SCREW	RADIATION AXB	2
	SDSF3008Z	SCREW	IC/IC HOLDER	2
29	VYH7355-001	JACK HOLDER		1
30	SSSF3008Z	SCREW	JACK HOLDER	1
31	VKZ3001-002	SPECIAL SCREW	FOR TRANS	4
32	VMA4485-001	SHIELD PLATE		1
33	VMA4507-001	BARRIER		1
34	VYH3658-001	TRANS BRACKET		1
36	VJD5334-002	DOOR ORNAMENT		1
37	VJT4179-001	DOOR LENS		1
38	PQ42561-2	MARK	JVC	1
39	VJT2264-002	DOOR COVER		1
40	VJT2263-001	CASS DOOR		1
41	VKY4180-001	CASSETTE SPRING		2
42	VKW4939-002	DOOR SPRING		1
43	VYH5601-001	GEAR		1
44	VYH7353-001	PCB HOLDER		1
45	QHS3876-162	S.R.BUSHING	POWER CORD	1
46	VYSH106-051	SPACER	17	1
48	SDST3008Z	SCREW		2
49	SDST3008Z	SCREW		2
	VMA4496-001	INSULATOR	PRE PCB	1
50	VYSH105-033	SPACER		1
52	SDST3006Z	SCREW		1
53	SDST3008M	SCREW		4
54	VYN9159-122	NAME PLATE		1
55	VYH7478-001	HEAT SINK. (A)		1
56	VYH7479-001	HEAT SINK (B)		1
57	SDST2608Z	SCREW		1
59	QMF51A2-R63	FUSE	F951	1
	QMF51A2-R63	FUSE	F954	1
60	VND4003-072	FUSE LABEL		1
	VND4003-072	FUSE LABEL		1
61	VND4003-073	FUSE LABEL		1
62	QMF51A2-1R6	FUSE	F953	1
63	SSST3006Z	SCREW	MECHA HOLDER/FRON	1

1 2 3 4 5

## ■ Cassette Mechanism Sections : M3MM

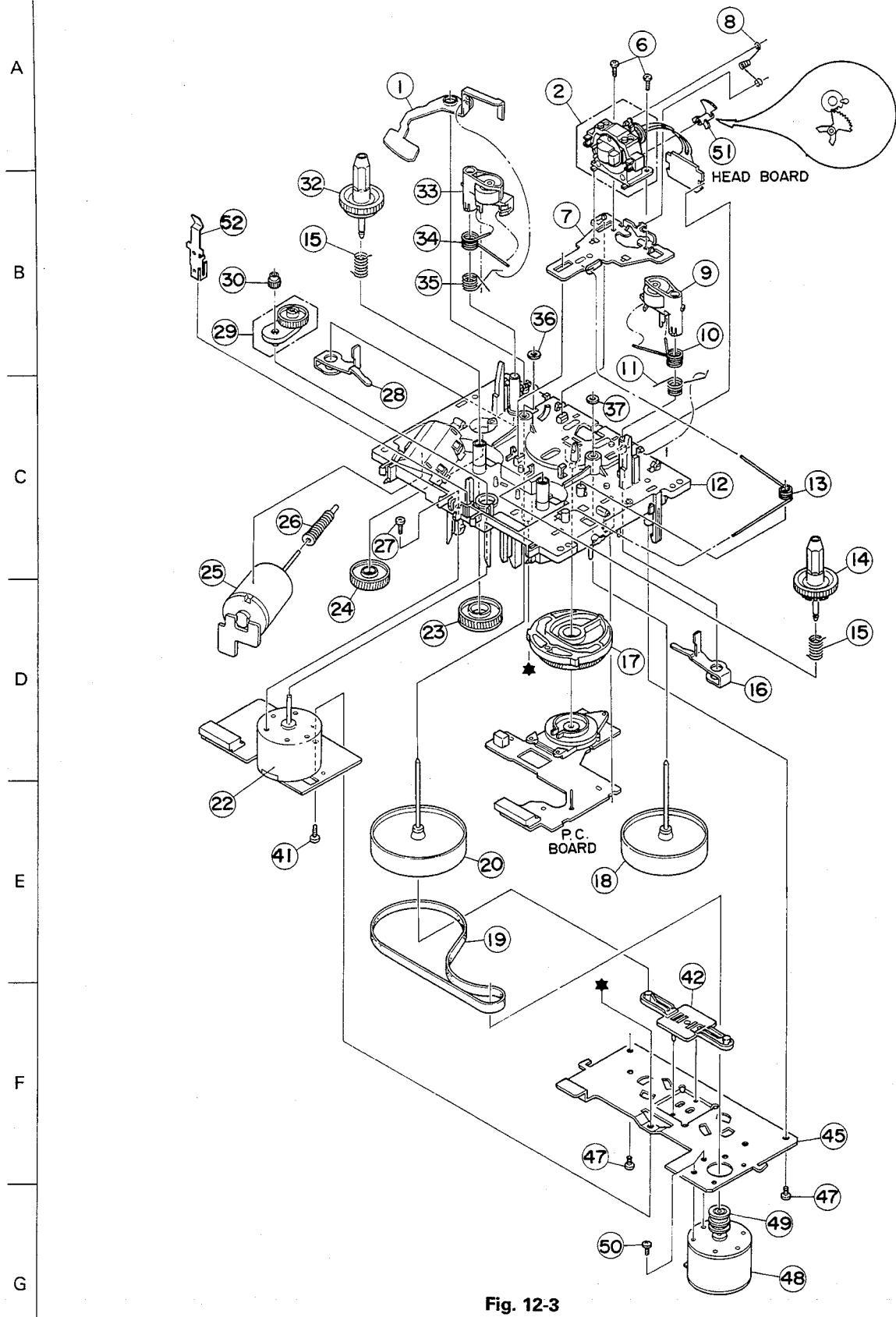


Fig. 12-3

## ■ Cassette Mechanism Sections

Block No. M3MM

▲	REF.	PARTS NO.	PARTS NAME	REMARKS	Q'TY
	25,26 48,49 2	MXN13FB12F-SA1 MMI6H2LWK-SA4 VDG5149-002MB1	REEL MOTOR ASS'Y CAPSTAN MOTOR ASS'Y HEAD MOUNT ASS'Y		1 1 1
	1 6 7 8	VKL6954-006 SDST2004Z VKL6942-00C VKW4914-007	EJECT SAFETY(R) SCREW HEAD BASE AS'Y HEAD SPRING	MOUNT BASE HEAD GEAR, FROM 310	1 2 1 1
	9 10 11 12 13	VKP4221-00A VKW4982-001 VKW4933-003 VKS1112-30E VKW4930-002	PINCH R.(L) ASY SPRING TORSION SPRING CHASSIS B ASSY RETURN SPRING	PINCH ROLLER(L) PINCH ROLLER ARM(C)	1 1 1 1 1
	14 15 16 17	VKS3480-003 VKW4928-002 VKW4928-002 VKL6940-002 VKS2209-004	REEL B.T. SPRING B.T. SPRING PINCH LEVER (L) CONTROL CAM		1 1 1 1 1
	18 19 20 22 23	VKF3182-00E VKB3001-049 VKF3180-00E MMN-6F4RA88 VKS5331-002	FLYWHEEL(L) ASY BELT FLYWHEEL(R) ASY D.C.MOTOR ACT. GEAR (6)		1 1 1 1 1
	24 25 26 27 28	VKS5330-003 MXN-13FB12F VKS5329-001 SDSF2605Z VKL6939-002	ACT. GEAR (5) DC MOTOR ASS'Y ACTUATOR GEAR4 SCREW PINCH LEVER (R)	FOR REEL ACTUATOR	1 1 1 1 1
	29 30 32 33 34	VKS5325-00E VKS5328-002 VKS5321-00C VKP4219-00A VKW4981-001	FR ARM ASY GEAR T-UP REEL ASS'Y PINCH R.(R) ASY SPRING	REEL MOTOR PINCH ROLLER(R)	1 1 1 1 1
	35 36 37 41 42	VKW4932-003 VKZ4035-009 Q03093-527 SDSF2608Z VKS5327-003	TORSION SPRING WASHER WASHER SCREW THRUST PLATE	PINCH ROLLER ARM(C) FOR OIL CUT(F) FOR OIL CUT(R)	1 1 1 1 1
	45 47 48 49 50	VKM3416-004 SDSF2605Z MMI-6H2LWK VKR4364-002 SPSP2603Z	FM BRACKET SCREW MOTOR ASS'Y MOTOR PULLEY SCREW	FM BRACKET FOR CAPSTAN	1 2 1 1 2
	51 52	VKS3485-002 VKY4628-001	HEAD GEAR (1) PACK SPRING		1 1

1 2 3 4 5

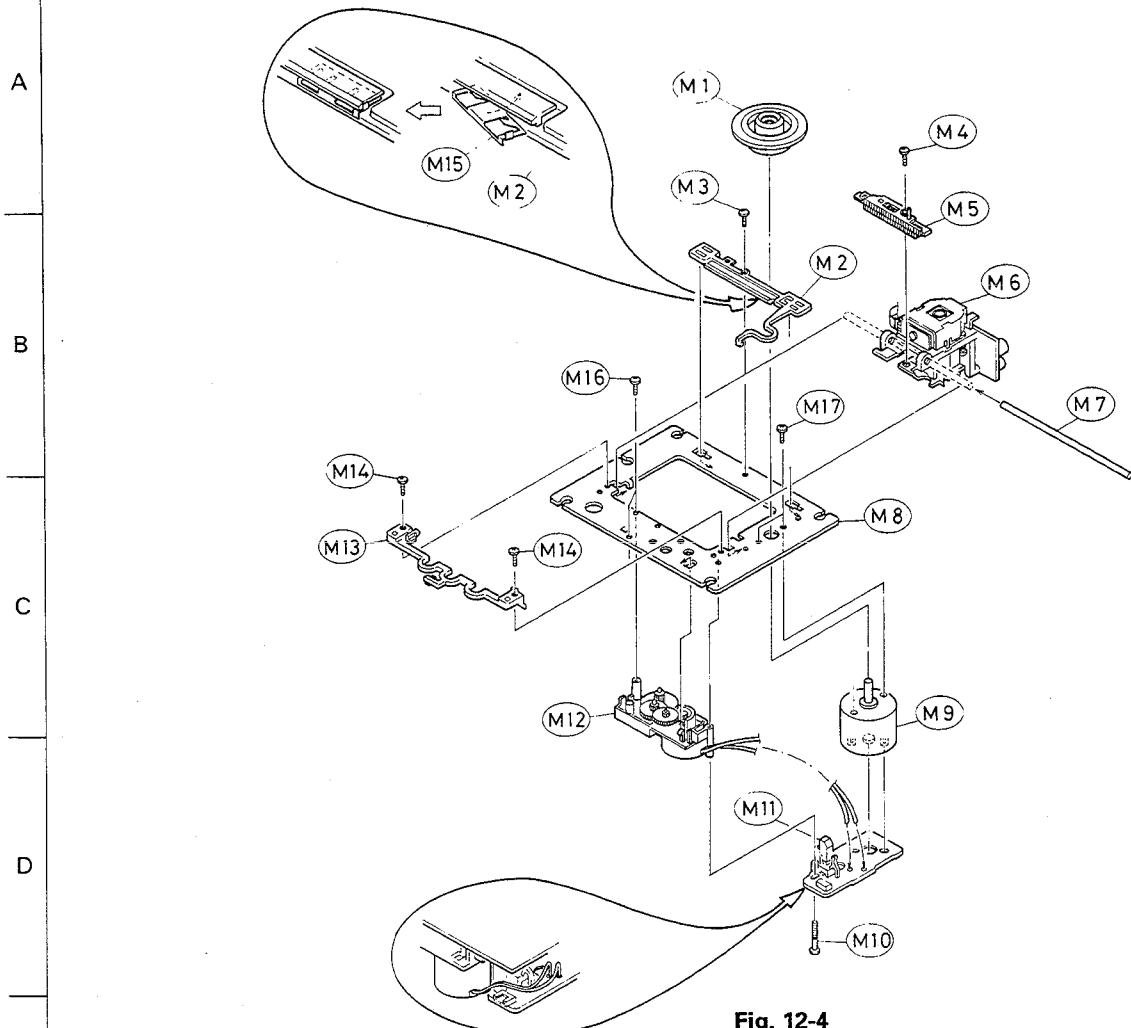
**■ CD Mechanism Section : M4MM**

Fig. 12-4

**■ CD Mechanism Component Parts List**

Block No. M4MM

REF. NO.	PARTS NO.	PARTS NAME	REMARKS	Q'TY
M1	E406064-002	CD TURN TABLE ASS'Y		1
M2	E306275-003	CD SUPPORT		1
M3	SDST2005Z	SCREW	FOR CD SUPPORT	1
M4	SPSH2050M	SCREW	FOR CD RACK ASS'Y	1
M5	E306282-001	CD RACK ASS'Y		1
M6	OPTIMA-5S	CD PICK UP UNIT		1
M7	E74930-003	CD SHAFT	FOR CD PICK UP UNIT	1
M8	E26487-003	CD MECHANISM BASE		1
M9	E74539-001B	SPINDLE MOTOR		1
M10	E75832-001	SCREW	FOR CD LEAF SWITCH UNIT	1
M11	ESB1100-005	CD LEAF SWITCH		1
M12	SE10351-11	CD GEAR ASS'Y		1
M13	E306277-001	CD HOLDER		1
M14	SDST2004Z	SCREW	FOR CD HOLDER	2
M15	E75827-001	SPRING	FOR CD SUPPORT	1
M16	E72713-001	SCREW	FOR CD MECHA BASE + GEAR ASS'Y	2
M17	SDSP2003N	SCREW	FOR SPINDLE MOTOR	2

1 2 3 4 5

## ■ Speaker System Section (Left Side) : M5MM

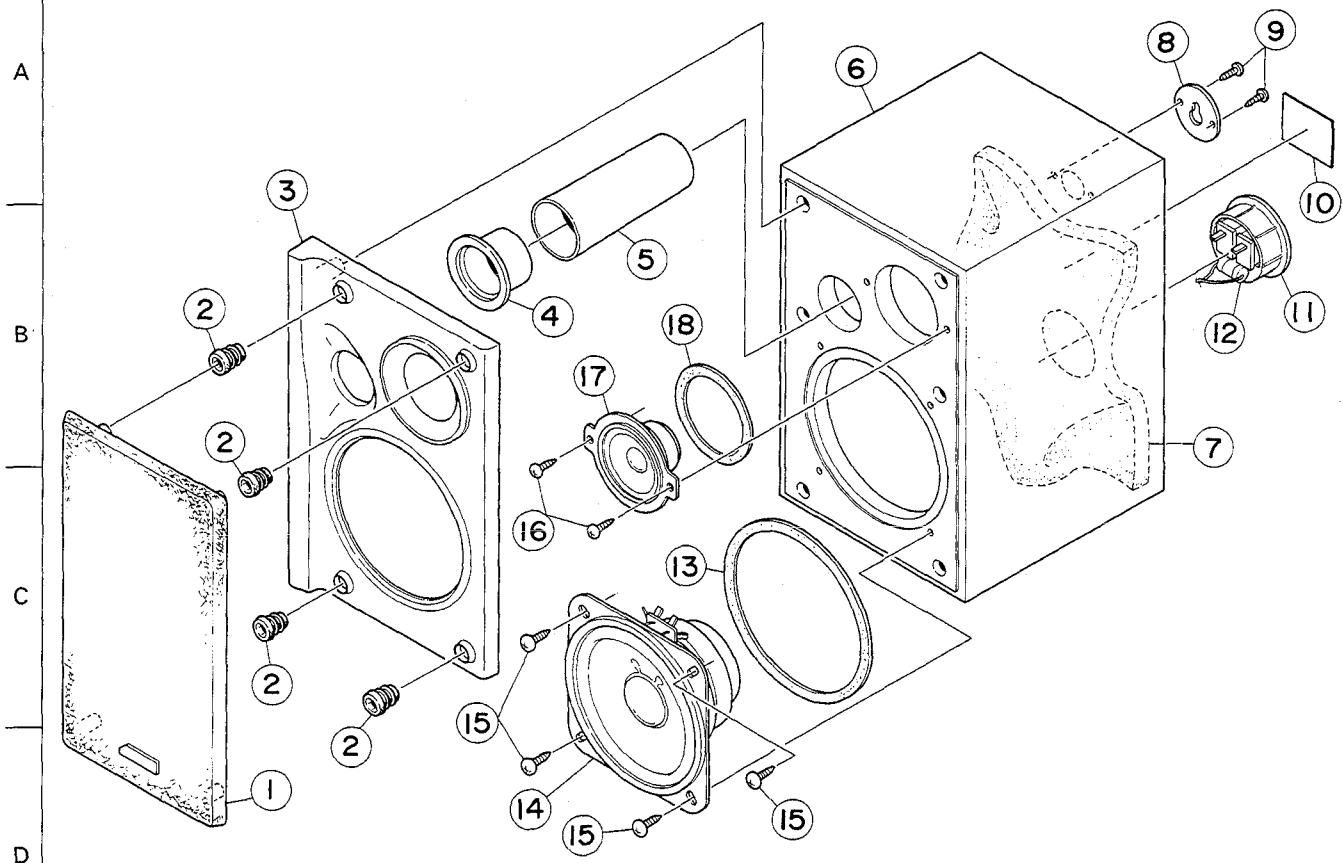


Fig. 12-5

## ■ Speaker System Section (Left Side)

Block No. M5MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	Q.T.Y
	3,6	VJC2414-001SA	SPEAKER BOX ASS'Y	LEFT	1
	3,6	VJC2414-002SA	SPEAKER BOX ASS'Y	RIGHT	1
	1	VJC2413-10A	GRILL ASS'Y	LEFT	1
		VJC2413-10B	GRILL ASS'Y	RIGHT	1
	2	VYTR430-001	BLIND	LEFT	4
		VYTR430-001	BLIND	RIGHT	4
	3	VJC1970-003	FRONT PANEL	LEFT	1
		VJC1971-003	FRONT PANEL	RIGHT	1
	4	VYH7369-001	DUCT CONECTOR	LEFT	2
		VYH7369-001	DUCT CONECTOR	RIGHT	1
	5	VYH7370-001	DUCT	LEFT	1
		VYH7370-001	DUCT	RIGHT	1
	6	VJC2414-003	SPEAKER BOX	LEFT	1
		VJC2414-004	SPEAKER BOX	RIGHT	1
	7	VKZ4389-002	SOUND ABSOBER	LEFT	2
		VKZ4389-002	SOUND ABSOBER	RIGHT	1
	8	VJD5342-001	HOLDER	LEFT	1

A	REF.	PARTS NO.	PARTS NAME	REMARKS	Q.T.Y
	9	VJD5342-001 SDSA3012M SDSA3012M	HOLDER SCREW SCREW	RIGHT LEFT RIGHT	1 2 2
	10	VYN9159-101B VYN9159-101B	NAME PLATE NAME PLATE	LEFT RIGHT	1 1
	11	VMZ0099-001 VMZ0099-001	TERMINAL TERMINAL	LEFT RIGHT	1 2
	12	UXB1-CONDENSER	E.CAPACITOR	LEFT NETWORK, 1.5	1
	13	UXB1-CONDENSER	E.CAPACITOR	RIGHT NETWORK, 1.5	1
		VYTH490-001	PACKING	LEFT	1
	14	VYTH490-001 EAS12PL511K-G	PACKING SPEAKER	RIGHT LEFT	1 1
	15	EAS12PL511K-G	SPEAKER	RIGHT	1
		SDSA4012M SDSA4012M	T.SCREW T.SCREW	FOR LEFT SPEAKER RIGHT	4 4
	16	SDSA3510M SDSA3510M	SCREW SCREW	LEFT RIGHT	2 2
	17	EAS5PH73KA-G EAS5PH73KA-G	SPEAKER SPEAKER	LEFT RIGHT	1 1
	18	VYTH490-002	PACKING	LEFT	1
		VYTH490-002	PACKING	RIGHT	1

## 13 Illustration of Packing and Packing Parts List

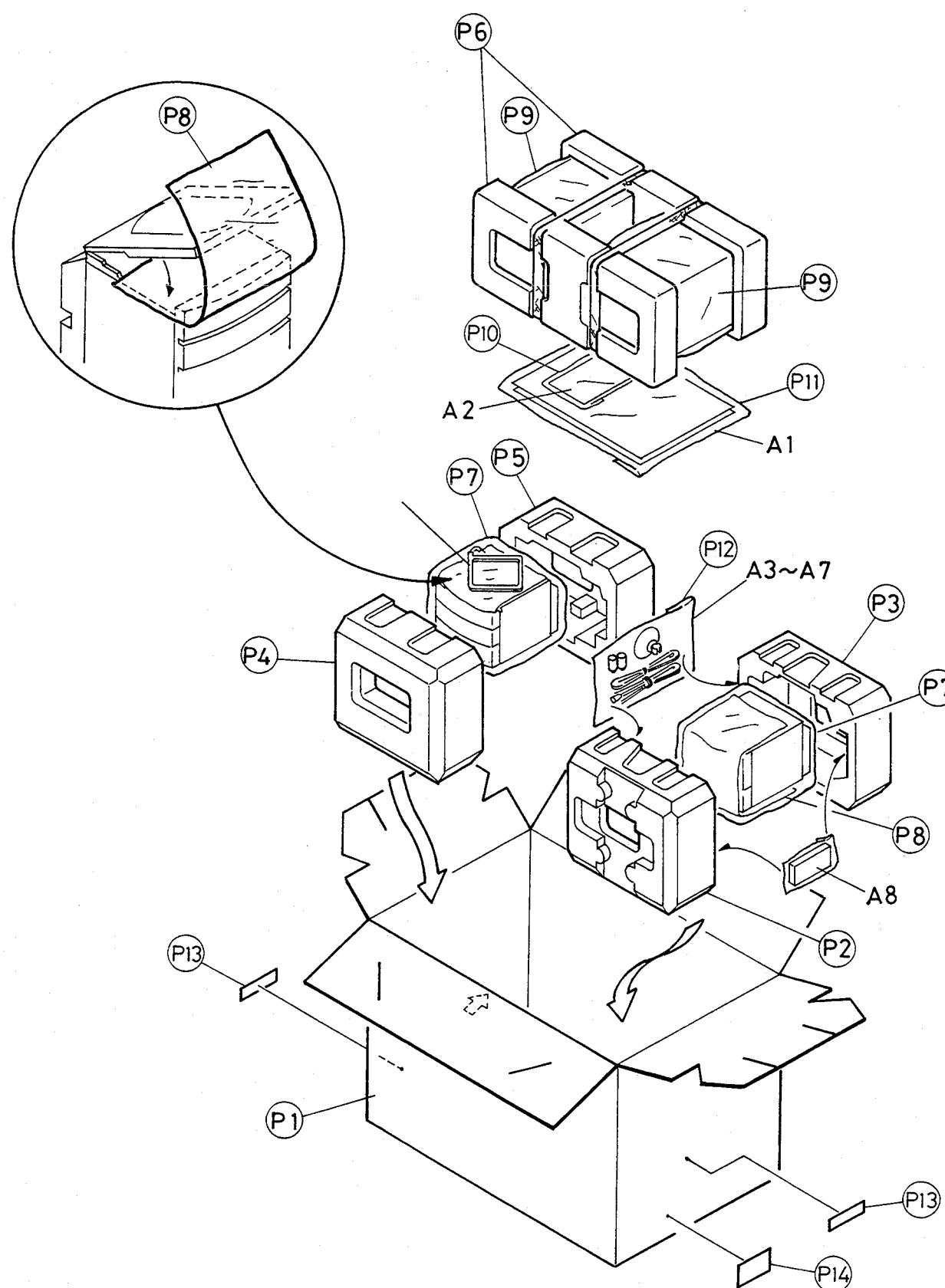


Fig. 13-1

### ■ Packing & Accessories Parts List

REF. NO.	PARTS NO.	PARTS NAME	REMARKS	Q'TY
P1	VPC9159-006	CARTON		1
P2	VPH1538-001	CUSHION (F1)	TAPE DECK SECTION: FRONT	1
P3	VPH1538-002	CUSHION (R1)	TAPE DECK SECTION: REAR	1
P4	VPH1539-001	CUSHION (F2)	CD PLAYER SECTION: FRONT	1
P5	VPH1539-002	CUSHION (R2)	CD PLAYER SECTION: REAR	1
P6	VPH3216-001	CUSHION SET	FOR SPEAKER SYSTEM	1 set
P7	VPE3005-065	ENVELOPE	TAPE DECK/CD PLAYER SECTIONS	2
P8	VPK4002-009	SHEET	TAPE DECK/CD PLAYER SECTIONS	2
P9	VPE3010-007	ENVELOPE	FOR SPEAKER SYSTEM	2
P10	E66416-003	ENVELOPE	FOR INSTRUCTIONS BOOK, WARRANTY CARD	1
P11	VPE3005-007	ENVELOPE	INSTRUCTIONS BOOK, WARRANTY CARD	1
P12	QPGA10-03003	ENVELOPE	FOR ACCESSORIES A3~A6	1
P13	VND3044-003	SERIAL TICKET	UX-1E	1
	VND3044-004	SERIAL TICKET	UX-1B	1
	VND3044-005	SERIAL TICKET	UX-1G	1
P14	VND3025-127	EAN CODE LABEL		1
A1	VNN9159-211	INSTRUCTIONS	UX-1B/E/G	1
A2	VNN9159-441	INSTRUCTIONS	UX-1E	1
	PU36158	FTZ INFORMATION SHEET	UX-1G	1
	BT20066A	WARRANTY CARD	UX-1B/G	1
A3	BT20114	SAFETY CARD	UX-1G	1
A4	BT20060	SAFETY CARD	UX-1B	1
	E43486-340B	SAFETY INSTRUCTION SHEET	UX-1B	1
A5	EWP502-001	FM ANTENNA		1
A6	E304084-001	LOOP ANTENNA STAND		1
A7	VMP0093-002	SPEAKER CORD	FOR REMOCON UNIT	2
A8	UM4NJ-2P	BATTERY		2
	UGZ0112-001	CHANGE PLUG		1
	RM955	REMOCON UNIT		1
			MODEL NAME: RM-RX1001	1

## 14 Electrical Parts List

■ Micro Computer/LCD Display/Function  
P.C. Board : Drawing No. VMW1255

REF.	PARTS NO.	PARTS NAME
CN301	VMC0063-010	CONNECTOR
CN302	VMC0162-013	CONNECTOR
CN303	VMC0162-013	CONNECTOR
CN701	VMC0064-002	CONNECTOR
CN702	VMC0064-006	CONNECTOR
CN703	VMC0162-R13	CONNECTOR
CN704	VMC0162-R13	CONNECTOR
CN705	VMC0107-R05	SOCKET
CN706	VMC0063-006	CONNECTOR
CN707	VMC0162-010	CONNECTOR
C100	QCS11HJ-330	C CAPACITOR
C101	QEK41HM-225	E.CAPA.
C102	QEK41CM-106	E CAPACITOR
C105	QEK41HM-105	E CAPACITOR
C106	QCXB1CM-562Y	C CAPACITOR
C107	QCS11HJ-330	C CAPACITOR
C108	QFV41HJ-224	TF CAPACITOR
C109	QFV41HJ-683	TF CAPACITOR
C110	QEK41HM-105	E CAPACITOR
C111	QEK41EM-475	E.CAPACITOR
C112	QCS11HJ-330	C CAPACITOR
C113	QEK41CM-226	E CAPACITOR
C114	QEK41HM-105	E CAPACITOR
C115	QFV11HJ-393ZM	TF CAPACITOR
C200	QCS11HJ-330	C CAPACITOR
C201	QEK41HM-225	E.CAPA.
C202	QEK41CM-106	E CAPACITOR
C205	QEK41HM-105	E CAPACITOR
C206	QCXB1CM-562Y	C CAPACITOR
C207	QCS11HJ-330	C CAPACITOR
C208	QFV41HJ-224	TF CAPACITOR
C209	QFV41HJ-683	TF CAPACITOR
C210	QEK41HM-105	E CAPACITOR
C211	QEK41EM-475	E.CAPACITOR
C212	QCS11HJ-330	C CAPACITOR
C213	QEK41CM-226	E CAPACITOR
C214	QEK41HM-105	E CAPACITOR
C215	QFV11HJ-393ZM	TF CAPACITOR
C301	QEK41CM-336	E CAPACITOR
C302	QEK41EM-475	E.CAPACITOR
C303	QEK41CM-476	E CAPACITOR
C304	QEK41CM-336	E CAPACITOR
C313	QEK41CM-476	E CAPACITOR
C314	QEK41CM-336	E CAPACITOR
C315	QEK41EM-335	E CAPACITOR
C316	QEK41CM-476	E CAPACITOR
C317	QCC11EM-103	C CAPACITOR
C318	QEK41HM-105	E CAPACITOR
C701	QCBB1HK-102Y	C CAPACITOR
C702	GETC1AM-107ZN	E CAPACITOR
C703	VCE0056-479Z	SUPER CAP.
C707	QCBB1HK-102Y	C CAPACITOR
C709	QCS11HJ-200	C CAPACITOR
C710	QCS11HJ-160	C CAPACITOR
C711	QCS11HJ-220	C CAPACITOR
C712	QCS11HJ-220	C CAPACITOR
C713	QCS11HJ-560	C.CAPACITOR
C714	QCS11HJ-560	C.CAPACITOR
C715	QCBB1HK-151Y	C CAPACITOR
C716	GETC1HM-104ZM	E CAPACITOR

REF.	PARTS NO.	PARTS NAME
C717	QETC1HM-225ZM	E.CAPACITOR
C719	QETC1AM-107ZM	E.CAPACITOR
C720	QETC1AM-227ZM	E.CAPACITOR
C722	QETC1HM-105ZN	E CAPACITOR
C723	QETC1HM-105ZN	E CAPACITOR
C724	QETC1HM-475ZN	E CAPACITOR
C725	QETC1HM-475ZN	E CAPACITOR
C726	QETC1AM-476ZN	E CAPACITOR
C727	QCC11EM-473	C CAPACITOR
C729	QETC1AM-476ZN	E CAPACITOR
C730	QCBB1HK-102Y	C CAPACITOR
C731	QCBB1HK-102Y	C CAPACITOR
C732	QCBB1HK-102Y	C CAPACITOR
C733	QCBB1HK-102Y	C CAPACITOR
C734	QCBB1HK-102Y	C CAPACITOR
C735	QCXB1CM-472Y	C.CAPACITOR
C901	QFV41HJ-683	TF CAPACITOR
C902	QFV41HJ-683	TF CAPACITOR
C903	QFV41HJ-683	TF CAPACITOR
C904	QFV41HJ-683	TF CAPACITOR
C905	QETB1EM-228N	E.CAPACITOR
C906	QFV41HJ-683	TF CAPACITOR
C907	QFV41HJ-683	TF CAPACITOR
C908	QCBB1HK-102Y	C CAPACITOR
C909	QCVB1CM-103Y	C CAPACITOR
C910	QEK41CM-476	E CAPACITOR
C911	QEK61AM-107ZM	E CAPACITOR
C912	QCBB1HK-102Y	C CAPACITOR
C913	QEK61AM-107ZM	E CAPACITOR
C914	QCBB1HK-102Y	C CAPACITOR
C915	QEK41CM-476	E CAPACITOR
C916	QEK41CM-476	E CAPACITOR
D301	MA165	SI DIODE
D302	MA165	SI DIODE
D303	MA165	SI DIODE
D304	MA165	SI DIODE
D305	MA165	SI DIODE
D306	MA165	SI DIODE
D703	MA165	SI DIODE
D704	MA165	SI DIODE
D706	MA4062(H)	Z DIODE
D708	11E1-TB2	SI DIODE
D709	MA165	SI DIODE
D711	MA165	SI DIODE
D712	MA165	SI DIODE
D713	MA165	SI DIODE
D901	S4VB10-4002	SI DIODE
D902	MA165	SI DIODE
D903	MA4056(M)	ZENER DIODE
D904	MA165	SI DIODE
D905	MA165	SI DIODE
D906	MA165	SI DIODE
D907	MA4068(M)	Z DIODE
D908	MA4062(H)	Z DIODE
D909	MA165	SI DIODE
D910	MA165	SI DIODE
D911	MA165	SI DIODE
IC301	VC4580L	IC
IC303	XRA15218N	IC
IC304	VC4580L	IC

REF.	PARTS NO.	PARTS NAME
IC305	VC4580LD	IC
IC306	PQ30RV1	IC
IC702	MN1871610JCK-1	IC(CPU)
IC703	BA6208A	IC
IC704	TA8409S	IC
IC705	XRA10358N	IC
IC706	PST529C	IC
LC701	VGL1089-102	LCD
L702	VQZ0048-009	INDUCTOR
L703	VQP025K-4R7Y	INDUCTOR
L704	VQP025K-221Y	INDUCTOR
L705	VQP025K-221Y	INDUCTOR
L710	VQP025K-4R7Y	INDUCTOR
L711	VQP025K-4R7Y	INDUCTOR
L712	VQP025K-4R7Y	INDUCTOR
L713	VQP025K-4R7Y	INDUCTOR
L714	VQP025K-4R7Y	INDUCTOR
PL701	VGZ0001-041	P.LAMP
PL702	VGZ0001-041	P.LAMP
Q101	2SC2001(L,K)	TRANSISTOR
Q102	2SC2001(L,K)	TRANSISTOR
Q103	2SC2001(L,K)	TRANSISTOR
Q104	2SC2001(L,K)	TRANSISTOR
Q105	2SC2001(L,K)	TRANSISTOR
Q106	2SC2001(L,K)	TRANSISTOR
Q107	2SC2785(E,F)	TRANSISTOR
Q108	2SK301(P,Q)	FET I/M
Q109	2SD1302(S,T)	TRANSISTOR
Q201	2SC2001(L,K)	TRANSISTOR
Q202	2SC2001(L,K)	TRANSISTOR
Q203	2SC2001(L,K)	TRANSISTOR
Q204	2SC2001(L,K)	TRANSISTOR
Q205	2SC2001(L,K)	TRANSISTOR
Q206	2SC2001(L,K)	TRANSISTOR
Q207	2SC2785(E,F)	TRANSISTOR
Q208	2SK301(P,Q)	FET I/M
Q209	2SD1302(S,T)	TRANSISTOR
Q301	UN411E	TRANSISTOR
Q302	UN411E	TRANSISTOR
Q303	UN411E	TRANSISTOR
Q304	UN4210	TRANSISTOR
Q308	UN4111	TRANSISTOR
Q701	2SC3311(R,S)	TRANSISTOR
Q702	2SC945L(P,Q)	TRANSISTOR
Q703	2SC945L(P,Q)	TRANSISTOR
Q705	2SC3311(R,S)	TRANSISTOR
Q706	2SC3311(R,S)	TRANSISTOR
Q707	2SA952(L,K)	TRANSISTOR
Q708	UN4211	TRANSISTOR
Q709	2SB562(B,C)	TRANSISTOR
Q710	2SC3311(R,S)	TRANSISTOR
Q711	2SC3311(R,S)	TRANSISTOR
Q712	2SA733A(P,K)	TRANSISTOR
Q713	2SA733A(P,K)	TRANSISTOR
Q714	2SC3311(R,S)	TRANSISTOR
Q715	2SC3311(R,S)	TRANSISTOR
Q901	2SB562(B,C)	TRANSISTOR
Q902	2SB562(B,C)	TRANSISTOR
Q903	2SB562(B,C)	TRANSISTOR
Q904	2SC2785(E,F)	TRANSISTOR

REF.	PARTS NO.	PARTS NAME
Q905	2SC2785(E,F)	TRANSISTOR
Q906	UN411E	TRANSISTOR
Q907	UN4213	TRANSISTOR
Q908	UN4210	TRANSISTOR
Q909	2SC3311(R,S)	TRANSISTOR
Q910	UN4213	TRANSISTOR
Q911	UN4213	TRANSISTOR
Q912	UN4210	TRANSISTOR
R101	QRD161J-682	CARBON RESISTOR
R102	QRD161J-103	CARBON RESISTOR
R103	QRD161J-123	CARBON RESISTOR
R104	QRD161J-822	CARBON RESISTOR
R105	QRD161J-103	CARBON RESISTOR
R106	QRD16	

REF.	PARTS NO.	PARTS NAME
R216	QRD161J-823	CARBON RESISTOR
R217	QRD161J-101	CARBON RESISTOR
R218	QRD161J-223	CARBON RESISTOR
R219	QRD161J-153	CARBON RESISTOR
R221	QRD161J-472	CARBON RESISTOR
R227	QRD161J-103	CARBON RESISTOR
R229	QRD161J-152	CARBON RESISTOR
R230	QRD161J-103	CARBON RESISTOR
R231	QRD161J-103	CARBON RESISTOR
R232	QRD161J-222	CARBON RESISTOR
R233	QRD161J-683	CARBON RESISTOR
R234	QRD161J-102	CARBON RESISTOR
R240	QRD161J-562	CARBON RESISTOR
R241	QRD161J-103	CARBON RESISTOR
R242	QRD161J-153	CARBON RESISTOR
R243	QRD161J-104	CARBON RESISTOR
R244	QRD161J-470	CARBON RESISTOR
R245	QRD161J-105	CARBON RESISTOR
R246	QRD161J-104	CARBON RESISTOR
R247	QRD161J-102	CARBON RESISTOR
R248	QRD161J-681	CARBON RESISTOR
R249	QRD161J-334	CARBON RESISTOR
R301	QRD161J-102	CARBON RESISTOR
R302	QRD161J-102	CARBON RESISTOR
R303	QRD161J-102	CARBON RESISTOR
R304	QRD161J-223	CARBON RESISTOR
R305	QRD161J-223	CARBON RESISTOR
R306	QRD161J-103	CARBON RESISTOR
R307	QRD161J-121	CARBON RESISTOR
R313	QRD161J-103	CARBON RESISTOR
R314	QRD161J-121	CARBON RESISTOR
R316	QRD161J-103	CARBON RESISTOR
R317	QRD161J-2R2	CARBON RESISTOR
R318	QRD161J-223	CARBON RESISTOR
R721	QRD161J-103	CARBON RESISTOR
R722	QRD161J-103	CARBON RESISTOR
R723	QRD161J-103	CARBON RESISTOR
R724	QRD161J-682	CARBON RESISTOR
R725	QRD161J-103	CARBON RESISTOR
R726	QRD161J-103	CARBON RESISTOR
R727	QRD161J-103	CARBON RESISTOR
R728	QRD161J-103	CARBON RESISTOR
R729	QRD161J-103	CARBON RESISTOR
R730	QRD161J-103	CARBON RESISTOR
R731	QRD161J-103	CARBON RESISTOR
R732	QRD161J-102	CARBON RESISTOR
R733	QRD161J-223	CARBON RESISTOR
R735	QRD161J-223	CARBON RESISTOR
R736	QRD161J-223	CARBON RESISTOR
R737	QRD161J-102	CARBON RESISTOR
R738	QRD161J-102	CARBON RESISTOR
R739	QRD161J-102	CARBON RESISTOR
R740	QRD161J-103	CARBON RESISTOR
R741	QRD161J-102	CARBON RESISTOR
R742	QRD161J-102	CARBON RESISTOR
R743	QRD161J-102	CARBON RESISTOR
R744	QRD161J-102	CARBON RESISTOR
R745	QRD161J-102	CARBON RESISTOR
R746	QRD161J-102	CARBON RESISTOR
R747	QRD161J-102	CARBON RESISTOR

REF.	PARTS NO.	PARTS NAME
R748	QRD161J-103	CARBON RESISTOR
R749	QRD161J-103	CARBON RESISTOR
R750	QRD161J-103	CARBON RESISTOR
R751	QRD161J-102	CARBON RESISTOR
R752	QRD161J-102	CARBON RESISTOR
R753	QRD161J-102	CARBON RESISTOR
R754	QRD161J-102	CARBON RESISTOR
R756	QRD161J-473	CARBON RESISTOR
R758	QRD161J-473	CARBON RESISTOR
R759	QRD161J-104	CARBON RESISTOR
R760	QRD161J-473	CARBON RESISTOR
R762	QRD161J-221	CARBON RESISTOR
R764	QRD161J-221	CARBON RESISTOR
R765	QRD161J-472	CARBON RESISTOR
R766	QRD161J-272	CARBON RESISTOR
R767	QRD161J-332	CARBON RESISTOR
R768	QRD161J-332	CARBON RESISTOR
R769	QRD161J-473	CARBON RESISTOR
R770	QRD161J-473	CARBON RESISTOR
R771	QRD161J-474	CARBON RESISTOR
R772	QRD161J-474	CARBON RESISTOR
R773	QRD161J-183	CARBON RESISTOR
R774	QRD161J-183	CARBON RESISTOR
R775	QRD161J-473	CARBON RESISTOR
R776	QRD161J-473	CARBON RESISTOR
R777	QRD161J-472	CARBON RESISTOR
R778	QRD161J-472	CARBON RESISTOR
R779	QRD161J-331	CARBON RESISTOR
R781	QRD161J-102	CARBON RESISTOR
R782	QRD161J-471	CARBON RESISTOR
R785	QRD161J-102	CARBON RESISTOR
R786	QRD161J-104	CARBON RESISTOR
R787	QRD161J-4R7	CARBON RESISTOR
R788	QRD121J-2R2	CARBON RESISTOR
R790	QRD161J-104	CARBON RESISTOR
R791	QRD161J-102	CARBON RESISTOR
R792	QRD161J-683	CARBON RESISTOR
R793	QRD161J-683	CARBON RESISTOR
R794	QRD161J-103	CARBON RESISTOR
R795	QRD161J-221	CARBON RESISTOR
R797	QRD161J-103	CARBON RESISTOR
R798	QRD161J-104	CARBON RESISTOR
R800	QRD161J-821	CARBON RESISTOR
R801	QRD161J-473	CARBON RESISTOR
R802	QRD161J-102	CARBON RESISTOR
R803	QRD161J-102	CARBON RESISTOR
R804	QRD161J-223	CARBON RESISTOR
R805	QRD161J-223	CARBON RESISTOR
R806	QRD161J-472	CARBON RESISTOR
R807	QRD161J-472	CARBON RESISTOR
R808	QRD161J-102	CARBON RESISTOR
R810	QRD161J-222	CARBON RESISTOR
R811	QRD161J-222	CARBON RESISTOR
R901	QRD143J-4R7S	CARBON RESISTOR
R902	QRD143J-4R7S	CARBON RESISTOR
R903	QRD143J-4R7S	CARBON RESISTOR
R904	QRD161J-224	CARBON RESISTOR
R905	QRD161J-224	CARBON RESISTOR
R906	QRD161J-471	CARBON RESISTOR
R907	QRD161J-563	CARBON RESISTOR

■ CD Control P.C.Board  
:Drawing No.VMW2307

▲	REF.	PARTS NO.	PARTS NAME
	R908	QRD161J-103	CARBON RESISTOR
	R909	QRD161J-151	CARBON RESISTOR
	R910	QRD161J-681	CARBON RESISTOR
	R911	QRD161J-182	CARBON RESISTOR
	R912	QRD161J-472	CARBON RESISTOR
	R913	QRD161J-223	CARBON RESISTOR
	R914	QRD161J-683	CARBON RESISTOR
	R915	QRD161J-122	CARBON RESISTOR
	R916	QRD161J-103	CARBON RESISTOR
	R917	QRD161J-222	CARBON RESISTOR
	R918	QRD161J-332	CARBON RESISTOR
	R919	QRD161J-102	CARBON RESISTOR
	R920	QRD12CJ-470SX	C RESISTOR
	R921	QRD161J-472	CARBON RESISTOR
	R922	QRD161J-101	CARBON RESISTOR
	R923	QRD161J-221	CARBON RESISTOR
	R924	QRD161J-104	CARBON RESISTOR
	R927	QRD161J-101	CARBON RESISTOR
	R928	QRD161J-101	CARBON RESISTOR
	R929	QRD161J-101	CARBON RESISTOR
	R930	QRD161J-101	CARBON RESISTOR
	R931	QRD161J-333	CARBON RESISTOR
	R932	QRD161J-331	CARBON RESISTOR
	S715	QSS7A23-V06	SLIDE SWITCH
	T301	EQFO101-002	FILTER
	X701	VCX5000-001	CRYSTAL
	X702	CSA8.00MT-TF01	CERA LOCK

■ CD Door Open/Close Switch·Door Motor  
Antenna Terminal·Auxjack·Leaf Switch  
P.C.Board : Drawing No.VMW1253A~E

▲	REF.	PARTS NO.	PARTS NAME
	B1	E03719-15.0	FORMED BUS WIRE
	CN306	VMC0063-003	CONNECTOR
	CN708	VMC0063-002	CONNECTOR
	J301	VMJ3009-001	JACK ASSY
	S717	QSP2K21-V01	PUSH SWITCH
	S718	QSP2K21-V01	PUSH SWITCH
	S751	VSH1140-003	LEAF SWITCH
	S752	VSH1140-003	LEAF SWITCH
	S753	VSH1140-003	LEAF SWITCH
	S754	VSH1140-003	LEAF SWITCH
	S755	VSH1140-003	LEAF SWITCH

▲	REF.	PARTS NO.	PARTS NAME
	CN504	VMCO162-010	CONNECTOR
	C502	QETC1AM-476ZN	E CAPACITOR
	C505	QCBB1HK-471Y	C CAPACITOR
	C506	QCC11EM-223	C CAPACITOR
	C507	QCS11HJ-680	C CAPACITOR
	C508	QETC1AM-476ZN	E CAPACITOR
	C509	QCS11HJ-680	C CAPACITOR
	C510	QCSB1HK-2R2Y	C CAPACITOR
	C511	QCC11EM-223	C CAPACITOR
	C512	QCS11HJ-220	C CAPACITOR
	C513	QCBB1HK-820Y	C CAPACITOR
	C514	QCVB1CM-103Y	C CAPACITOR
	C515	QCC11EM-473	C CAPACITOR
	C516	QCS11HJ-470	C CAPACITOR
	C517	QCBB1HK-151Y	C CAPACITOR
	C518	QCBB1HK-101Y	C CAPACITOR
	C519	QCS11HJ-330	C CAPACITOR
	C520	QCXB1CM-222Y	C CAPACITOR
	C521	QEKF41CM-476	E CAPACITOR
	C522	QCBB1HK-221Y	C CAPACITOR
	C523	QCBB1HK-221Y	C CAPACITOR
	C525	QER41EM-475	E CAPACITOR
	C526	QER61AM-476ZM	E CAPACITOR
	C527	QEPJ1HM-105ZM	NP CAPACITOR
	C528	QFV41HJ-123	TF CAPACITOR
	C529	QFV11HJ-273ZN	TF CAPACITOR
	C531	QCVB1CM-822Y	C CAPACITOR
	C535	QFV41HJ-224	TF CAPACITOR
	C544	QCS11HJ-100	C CAPACITOR
	C545	QCS11HJ-100	C CAPACITOR
	C547	QFV41HJ-473	TF CAPACITOR
	C548	QETC1AM-476ZN	E CAPACITOR
	C549	QCC11EM-473	C CAPACITOR
	C550	QCBB1HK-331Y	C CAPACITOR
	C551	QETC1AM-476ZN	E CAPACITOR
	C552	QETC1AM-476ZN	E CAPACITOR
	C553	QCY41HK-122	C CAPACITOR
	C554	QETC1EM-106ZN	E CAPACITOR
	C555	QCY41HK-122	C CAPACITOR
	C556	QETC1AM-476ZN	E CAPACITOR
	C557	QCBB1HK-331Y	C CAPACITOR
	C563	QFV41HJ-123	FILM CAPACITOR
	C587	QCS11HJ-470	C CAPACITOR
	C591	QCC11EM-223	C CAPACITOR
	C604	QETC1EM-226ZN	E CAPACITOR
	C605	QETC1EM-226ZN	E CAPACITOR
	C606	QCXB1CM-562Y	C CAPACITOR
	C607	QCXB1CM-562Y	C CAPACITOR
	C608	QCXB1CM-682Y	C CAPACITOR
	C609	QCXB1CM-682Y	C CAPACITOR
	C610	QCS11HJ-680	C CAPACITOR
	C611	QCS11HJ-680	C CAPACITOR
	C612	QETC1EM-226ZN	E CAPACITOR
	C613	QETC1EM-226ZN	E CAPACITOR
	C614	QCC11EM-123	C CAPACITOR
	C615	QCC11EM-123	C CAPACITOR
	C616	QETC1AM-107ZN	E CAPACITOR
	C617	QETC1AM-107ZN	E CAPACITOR
	C618	QCC11EM-223	C CAPACITOR

REF.	PARTS NO.	PARTS NAME
C620	QEK61AM-107ZM	E CAPACITOR
C621	QETC1AM-477ZN	E CAPACITOR
C623	QETC1AM-476ZN	E CAPACITOR
D610	RD5.6ES	DIODE
IC501	MC13501M	IC
IC502	NJM3403D-C	IC
IC503	BA6294	IC
IC504	BA6294	IC
IC602	TC9201BF	IC
IC603	TC9200BF	IC
IC604	CXK5816PS-15L	IC
IC605	TD6710AF	IC
IC607	XRA15218N	IC
Q501	2SA1309(R,S)	TRANSISTOR
Q503	2SC1685(Q,R)	TRANSISTOR
Q504	2SC1685(Q,R)	TRANSISTOR
Q505	2SA1309(R,S)	TRANSISTOR
Q614	2SD1302(S,T)	TRANSISTOR
R501	QRD161J-184	CARBON RESISTOR
R502	QRD161J-154	CARBON RESISTOR
R503	QRD161J-682	CARBON RESISTOR
R504	QRD161J-472	CARBON RESISTOR
R505	QRD161J-102	CARBON RESISTOR
R506	QRD161J-681	CARBON RESISTOR
R507	QRD161J-104	CARBON RESISTOR
R508	QRD161J-273	CARBON RESISTOR
R509	QRD161J-222	CARBON RESISTOR
R510	QRD161J-103	CARBON RESISTOR
R511	QRD161J-103	CARBON RESISTOR
R512	QRD161J-123	CARBON RESISTOR
R513	QRD161J-103	CARBON RESISTOR
R514	QRD161J-224	CARBON RESISTOR
R515	QRD161J-333	CARBON RESISTOR
R516	QRD161J-153	CARBON RESISTOR
R517	QRD161J-822	CARBON RESISTOR
R519	QRD161J-823	CARBON RESISTOR
R520	QRV141F-3302AY	CMF RESISTOR
R521	QRD161J-823	CARBON RESISTOR
R522	QRD161J-102	CARBON RESISTOR
R523	QRD161J-562	CARBON RESISTOR
R524	QRD161J-152	CARBON RESISTOR
R525	QRD161J-273	CARBON RESISTOR
R526	QRD161J-682	CARBON RESISTOR
R527	QRD161J-564	CARBON RESISTOR
R528	QRD161J-153	CARBON RESISTOR
R529	QRD161J-103	CARBON RESISTOR
R530	QRD161J-103	CARBON RESISTOR
R531	QRD161J-821	CARBON RESISTOR
R532	QRD161J-153	CARBON RESISTOR
R533	QRD161J-103	CARBON RESISTOR
R534	QRD161J-821	CARBON RESISTOR
R535	QRD161J-272	CARBON RESISTOR
R536	QRD161J-104	CARBON RESISTOR
R537	QRD161J-563	CARBON RESISTOR
R538	QRD161J-153	CARBON RESISTOR
R539	QRD161J-333	CARBON RESISTOR
R540	QRD161J-562	CARBON RESISTOR
R541	QRD161J-104	CARBON RESISTOR
R542	QRD161J-223	CARBON RESISTOR
R544	QRD161J-392	CARBON RESISTOR

REF.	PARTS NO.	PARTS NAME
R545	QRD161J-103	CARBON RESISTOR
R546	QRD161J-104	CARBON RESISTOR
R547	QRD161J-473	CARBON RESISTOR
R548	QRD161J-683	CARBON RESISTOR
R549	QRD161J-181	CARBON RESISTOR
R550	QRD161J-103	CARBON RESISTOR
R559	QRD161J-103	CARBON RESISTOR
R560	QRD161J-103	CARBON RESISTOR
R565	QRD161J-683	CARBON RESISTOR
R566	QRD161J-181	CARBON RESISTOR
R570	QRD161J-103	CARBON RESISTOR
R573	QRD161J-183	CARBON RESISTOR
R640	QRD161J-471	CARBON RESISTOR
R641	QRD161J-101	CARBON RESISTOR
R645	QRD161J-151	CARBON RESISTOR
R647	QRD161J-102	CARBON RESISTOR
R649	QRD161J-102	CARBON RESISTOR
R660	QRD161J-272	CARBON RESISTOR
R661	QRD161J-272	CARBON RESISTOR
R662	QRD161J-332	CARBON RESISTOR
R663	QRD161J-332	CARBON RESISTOR
R664	QRD161J-103	CARBON RESISTOR
R665	QRD161J-103	CARBON RESISTOR
R666	QRD161J-103	CARBON RESISTOR
R667	QRD161J-103	CARBON RESISTOR
R668	QRD161J-332	CARBON RESISTOR
R669	QRD161J-332	CARBON RESISTOR
R672	QRD161J-122	CARBON RESISTOR
R673	QRD161J-122	CARBON RESISTOR
R674	QRD161J-104	CARBON RESISTOR
R675	QRD161J-104	CARBON RESISTOR
R676	QRV141F-8202AY	CMF RESISTOR
R677	QRD161J-333	CARBON RESISTOR
R678	QRV141F-3302AY	CMF RESISTOR
R681	QRV141F-8202AY	CMF RESISTOR
R682	QRV141F-3302AY	CMF RESISTOR
R684	QRV141F-8202AY	CMF RESISTOR
R685	QRD161J-473	CARBON RESISTOR
R686	QRV141F-3302AY	CMF RESISTOR
R687	QRD161J-103	CARBON RESISTOR
R688	QRD161J-103	CARBON RESISTOR
R691	QRV141F-8202AY	CMF RESISTOR
R692	QRD161J-823	CARBON RESISTOR
R695	QRV141F-8202AY	CMF RESISTOR
R696	QRD161J-183	CARBON RESISTOR
R697	QRV141F-3302AY	CMF RESISTOR
R698	QRD161J-682	CARBON RESISTOR
R699	PTH61G30BD2R2N	POSISTER
VR501	QVZ3523-503AZ	V RESISTOR
X601	VCX5016-934V	CRYSTAL

■ Tuner P.C.Board Parts List  
: Drawing No.VMW2326

▲	REF.	PARTS NO.	PARTS NAME
	BP01	VBP4M3B-005	BP FILTER
	CF01	VCF2L3B-108Z	C FILTER
	CF02	VCF2L3B-108Z	C FILTER
	CF03	VCF1Z2Z-108Z	C FILTER
	CF04	CSB456F18	CERA LOCK
	CN02	EMV5103-002A	PLUG ASSY
	C001	QCS11HJ-200	C CAPACITOR
	C002	QCBB1HK-102Y	C CAPACITOR
	C003	QCSB1HJ-130Y	C CAPACITOR
	C004	QCT05UJ-100	C CAPACITOR
	C005	QCT05UJ-180	C CAPACITOR
	C006	QCVB1CN-103Y	C CAPACITOR
	C007	QCT30CH-200Y	C CAPACITOR
	C008	QCVB1CN-103Y	C CAPACITOR
	C009	QCT05UJ-100	C CAPACITOR
	C010	QCT30CH-2R2Y	C CAPACITOR
	C011	QCVB1CN-103Y	C CAPACITOR
	C012	QCBB1HK-151Y	C CAPACITOR
	C013	QCC11EM-223	C CAPACITOR
	C014	QCBB1HK-151Y	C CAPACITOR
	C016	QCVB1CN-103Y	C CAPACITOR
	C017	QCBB1HK-102Y	C CAPACITOR
	C018	QCVB1CN-103Y	C CAPACITOR
	C019	QCVB1CN-103Y	C CAPACITOR
	C020	QEK61AM-107ZM	E CAPACITOR
	C021	QCC11EM-473	C CAPACITOR
	C022	QFP31HG-431ZM	PP CAPACITOR
	C023	QCT30UJ-120Y	C CAPACITOR
	C024	QCS11HJ-560	C CAPACITOR
	C025	QEK41HM-104	E CAPACITOR
	C026	QCS11HJ-181	C CAPACITOR
	C027	QCS11HJ-101	C CAPACITOR
	C028	QCS11HJ-180	C CAPACITOR
	C029	QEKO4JHM-227	E CAPACITOR
	C030	QCVB1CN-103Y	C CAPACITOR
	C031	QCVB1CN-103Y	C CAPACITOR
	C032	QCVB1CN-103Y	C CAPACITOR
	C033	QEKO61AM-107ZM	E CAPACITOR
	C034	QCC31EM-333ZV	C CAPACITOR
	C035	QCC11EM-473	C CAPACITOR
	C036	QEKO41EM-475	E CAPACITOR
	C037	QCVB1CN-103Y	C CAPACITOR
	C038	QCBB1HK-102Y	C CAPACITOR
	C039	QCC11EM-473	C CAPACITOR
	C040	QEKO41HM-335	E CAPACITOR
	C041	QEKO41CM-106	E CAPACITOR
	C042	QCVB1CM-152Y	C CAPACITOR
	C043	QCVB1CN-103Y	C CAPACITOR
	C044	QEKO41HM-104	E CAPACITOR
	C045	QEKO41HM-474	E CAPACITOR
	C046	QEKO41CM-106	E CAPACITOR
	C047	QCC31EM-153ZV	C CAPACITOR
	C048	QCC31EM-153ZV	C CAPACITOR
	C049	QEKO41HM-105	E CAPACITOR
	C050	QEKO41HM-105	E CAPACITOR
	C053	QCS11HJ-150	C CAPACITOR
	C059	QCBB1HK-102Y	C CAPACITOR
	C060	QCBB1HK-102Y	C CAPACITOR
	C061	QEKO61AM-107ZM	E CAPACITOR

▲	REF.	PARTS NO.	PARTS NAME
	C062	QCSB1HJ-130Y	C CAPACITOR
	C063	QCC11EM-473	C CAPACITOR
	C064	QCS11HJ-270	C CAPACITOR
	C065	QCBB1HK-151Y	C CAPACITOR
	C066	QCBB1HK-151Y	C CAPACITOR
	C067	QCS11HJ-151	C CAPACITOR
	C069	QCVB1CM-222Y	C CAPACITOR
	C070	QEKO41HM-225	E CAPACITOR
	C071	QEKO41HM-335	E CAPACITOR
	D001	KV1350NT	VARI CAP
	D002	KV1350NT	VARI CAP
	D003	KV1350NT	VARI CAP
	D004	KV1350NT	VARI CAP
	D005	MA165	SI DIODE
	D006	MA165	SI DIODE
	D007	MA165	SI DIODE
	D008	KV1550NT	VARI CAP
	D009	KV1550NT	VARI CAP
	D010	KV1550NT	VARI CAP
	D011	KV1550NT	VARI CAP
	D012	MA165	SI DIODE
	D013	MA165	SI DIODE
	IC01	TA7358P(N)	IC
	IC02	TA8132AN	IC
	IC03	TC9216P	IC
	L001	VQF1B20-017	OSC COIL
	L002	VQF1B12-004	RF COIL
	L003	VQZ0030-010	RF COIL(MW)
	L004	VQM7U02-404	OSC COIL(MW)
	L005	VQZ0030-008	RF COIL
	L006	VQL7U02-502	OSC COIL(LW)
	L007	VQPO25K-4R7Y	INDUCTOR
	L008	VQPO25K-221Y	INDUCTOR
	L009	VQPO25K-4R7Y	INDUCTOR
	L010	VQPO25K-4R7Y	INDUCTOR
	L011	VQPO25K-4R7Y	INDUCTOR
	Q001	2SC1923(O)E2	TRANSISTOR
	Q002	2SD1302(S,T)	TRANSISTOR
	Q003	2SC2839(E)AC	TRANSISTER
	Q004	2SA1309(R,S)	TRANSISTOR
	Q005	2SD1302(S,T)	TRANSISTOR
	Q006	2SC3311(R,S)	TRANSISTOR
	Q007	2SC2839(E)AC	TRANSISTER
	Q008	DTC114YSTP	TR.I M
	Q009	DTA114YSTP	TRANSISTOR
	Q010	DTA114YSTP	TRANSISTOR
	Q011	DTA114YSTP	TRANSISTOR
	Q012	2SC3311(R,S)	TRANSISTOR
	Q013	2SC3311(R,S)	TRANSISTOR
	Q014	2SA1309(R,S)	TRANSISTOR
	Q015	DTC124ESTP	TRANSISTOR
	R001	QRD161J-104	CARBON RESISTOR
	R002	QRD161J-473	CARBON RESISTOR
	R003	QRD161J-4R7	CARBON RESISTOR
	R004	QRD161J-102	CARBON RESISTOR
	R005	QRD161J-823	CARBON RESISTOR
	R006	QRD161J-101	CARBON RESISTOR
	R008	QRD161J-101	CARBON RESISTOR
	R009	QRD161J-102	CARBON RESISTOR
	R010	QRD161J-101	CARBON RESISTOR

■ Operation Key·Bass/Treble Volume·Volume with  
Motor P.C.Board : Drawing No.2312A~C

REF.	PARTS NO.	PARTS NAME
R011	QRD161J-222	CARBON RESISTOR
R012	QRD161J-103	CARBON RESISTOR
R013	QRD161J-104	CARBON RESISTOR
R014	QRD161J-103	CARBON RESISTOR
R015	QRD161J-222	CARBON RESISTOR
R016	QRD161J-103	CARBON RESISTOR
R017	QRD161J-104	CARBON RESISTOR
R018	QRD161J-102	CARBON RESISTOR
R019	QRD161J-222	CARBON RESISTOR
R020	QRD161J-102	CARBON RESISTOR
R021	QRD161J-103	CARBON RESISTOR
R022	QRD161J-103	CARBON RESISTOR
R024	QRD161J-331	CARBON RESISTOR
R025	QRD161J-394	CARBON RESISTOR
R026	QRD161J-100	CARBON RESISTOR
R027	QRD161J-331	CARBON RESISTOR
R029	QRD161J-103	CARBON RESISTOR
R030	QRD161J-103	CARBON RESISTOR
R031	QRD161J-183	CARBON RESISTOR
R032	QRD161J-223	CARBON RESISTOR
R033	QRD161J-472	CARBON RESISTOR
R034	QRD161J-102	CARBON RESISTOR
R035	QRD161J-102	CARBON RESISTOR
R036	QRD161J-222	CARBON RESISTOR
R037	QRD161J-560	CARBON RESISTOR
R040	QRD161J-102	CARBON RESISTOR
R041	QRD161J-102	CARBON RESISTOR
R042	QRD161J-222	CARBON RESISTOR
R043	QRD161J-103	CARBON RESISTOR
R044	QRD161J-103	CARBON RESISTOR
R045	QRD161J-561	CARBON RESISTOR
R047	QRD161J-562	CARBON RESISTOR
R048	QRD161J-331	CARBON RESISTOR
R049	QRD161J-102	CARBON RESISTOR
R051	QRD161J-561	CARBON RESISTOR
R052	QRD161J-472	CARBON RESISTOR
R053	QRD161J-471	CARBON RESISTOR
R054	QRD161J-222	CARBON RESISTOR
R055	QRD161J-222	CARBON RESISTOR
R056	QRD161J-332	CARBON RESISTOR
R057	QRD161J-102	CARBON RESISTOR
R058	QRD161J-103	CARBON RESISTOR
TC02	QAT3722-200ZM	T CAPACITOR
TC03	QAT3722-300ZM	T CAPACITOR
T001	VQT7F12-110S	IFT
T002	VQT7A21-105	IFT
X001	V472124-A0	CRYSTAL

REF.	PARTS NO.	PARTS NAME
CN313	VMC0063-008	CONNECTOR
CN314	VMC0063-005	CONNECTOR
D701	GL-2PR6	LED
D705	MA165	SI DIODE
IC701	SBX1610-02	RM RECIVER
R701	QRD161J-182	CARBON RESISTOR
R702	QRD161J-122	CARBON RESISTOR
R704	QRD161J-202	CARBON RESISTOR
R705	QRD161J-821	CARBON RESISTOR
R706	QRD161J-122	CARBON RESISTOR
R707	QRD161J-122	CARBON RESISTOR
R708	QRD161J-182	CARBON RESISTOR
R709	QRD161J-222	CARBON RESISTOR
R710	QRD161J-272	CARBON RESISTOR
R711	QRD161J-392	CARBON RESISTOR
R712	QRD161J-562	CARBON RESISTOR
R713	QRD161J-822	CARBON RESISTOR
R714	QRD161J-183	CARBON RESISTOR
S701	QSP4H11-V06Z	TAUT SWITCH
S702	QSP4H11-V06Z	TAUT SWITCH
S703	QSP4H11-V06Z	TAUT SWITCH
S705	QSP4H11-V06Z	TAUT SWITCH
S706	QSP4H11-V06Z	TAUT SWITCH
S707	QSP4H11-V06Z	TAUT SWITCH
S708	QSP4H11-V06Z	TAUT SWITCH
S709	QSP4H11-V06Z	TAUT SWITCH
S710	QSP4H11-V06Z	TAUT SWITCH
S711	QSP4H11-V06Z	TAUT SWITCH
S712	QSP4H11-V06Z	TAUT SWITCH
S713	QSP4H11-V06Z	TAUT SWITCH
S714	QSP4H11-V06Z	TAUT SWITCH
VR302	VCV1001-110	VR
VR303	VCV1001-110	VR

■ Pre-amplifier ·Mecha Control P.C.Board  
: Drawing No.VMW1254A ·B

▲	REF.	PARTS NO.	PARTS NAME
	CN301	VMC0064-009	CONNECTOR
	CN302	VMC0064-005	CONNECTOR
	CN303	VMC0156-S12	CONNECTOR
	CN304	VMC0156-S03	CONNECTOR
	CN305	QMV5012-003	CONNECTOR
	CN501	VMC0107-R06	4P PLUG ASSY
	CN504	VMC0156-S10	CONNECTOR
	CN505	VMC0156-S12	CONNECTOR
	C101	QEK41HM-225	E.CAPA.
	C102	QCBB1HK-102Y	C CAPACITOR
	C103	QFV41HJ-103	TF CAPACITOR
	C104	QEK60JM-107ZM	E CAPACITOR
	C105	QER41HM-105	E CAPACITOR
	C106	QEK41HM-474	E CAPACITOR
	C107	QEK41HM-474	E CAPACITOR
	C108	QCBB1HK-471Y	C CAPACITOR
	C110	QCBB1HK-102Y	C CAPACITOR
	C111	QFV41HJ-224	TF CAPACITOR
	C112	QEK41HM-225	E.CAPA.
	C113	QEK41EM-475	E.CAPACITOR
	C114	QEK41HM-474	E CAPACITOR
	C115	QCC11EM-473	C CAPACITOR
	C116	QER41HM-105	E CAPACITOR
	C117	QEK41EM-475	E.CAPACITOR
	C118	QFV41HJ-104	TF CAPACITOR
	C119	QCBB1HK-102Y	C CAPACITOR
	C120	QFV11HJ-153ZN	TF CAPACITOR
	C121	QFV41HJ-333	TF CAPACITOR
	C122	QFV11HJ-153ZN	TF CAPACITOR
	C123	QEK41HM-105	E CAPACITOR
	C124	QCBB1HK-102Y	C CAPACITOR
	C125	QCS32HJ-331ZV	C CAPACITOR
	C126	QCBB1HK-331Y	C CAPACITOR
	C127	QCXB1CM-222Y	C CAPACITOR
	C201	QEK41HM-225	E.CAPA.
	C202	QCBB1HK-102Y	C CAPACITOR
	C203	QFV41HJ-103	TF CAPACITOR
	C204	QEK60JM-107ZM	E CAPACITOR
	C205	QER41HM-105	E CAPACITOR
	C206	QEK41HM-474	E CAPACITOR
	C207	QEK41HM-474	E CAPACITOR
	C208	QCBB1HK-471Y	C CAPACITOR
	C210	QCBB1HK-102Y	C CAPACITOR
	C211	QFV41HJ-224	TF CAPACITOR
	C212	QEK41HM-225	E.CAPA.
	C213	QEK41EM-475	E.CAPACITOR
	C214	QEK41HM-474	E CAPACITOR
	C215	QCC11EM-473	C CAPACITOR
	C216	QER41HM-105	E CAPACITOR
	C217	QEK41EM-475	E.CAPACITOR
	C218	QFV41HJ-104	TF CAPACITOR
	C219	QCBB1HK-102Y	C CAPACITOR
	C220	QFV11HJ-153ZN	TF CAPACITOR
	C221	QFV41HJ-333	TF CAPACITOR
	C222	QFV11HJ-153ZN	TF CAPACITOR
	C223	QEK41HM-105	E CAPACITOR
	C224	QCBB1HK-102Y	C CAPACITOR
	C225	QCS32HJ-331ZV	C CAPACITOR
	C226	QCBB1HK-331Y	C CAPACITOR
	C227	QCXB1CM-222Y	C CAPACITOR

▲	REF.	PARTS NO.	PARTS NAME
	C301	QER41AM-107	E CAPACITOR
	C302	QFV41HJ-103	TF CAPACITOR
	C303	QFV11HJ-153ZN	TF CAPACITOR
	C304	QCS11HJ-330	C CAPACITOR
	C305	QCXB1CM-182Y	C.CAPACITOR
	C306	QCBB1HK-681Y	C CAPACITOR
	C307	QEK61AM-107Z	E CAPACITOR
	C308	QER41HM-225	E.CAPACITOR
	C309	QER41CM-106	E CAPACITOR
	C310	QEK41CM-106	E CAPACITOR
	C311	QEK61AM-107Z	E CAPACITOR
	C312	QEK41CM-106	E CAPACITOR
	C313	QEK61AM-107Z	E CAPACITOR
	C314	QEK41CM-476	E CAPACITOR
	C315	QEK41CM-476	E CAPACITOR
	C316	QFLA1HJ-682ZM	M CAPACITOR
	C317	QFLA1HJ-682ZM	M CAPACITOR
	C318	QFLA1HJ-562ZM	M CAPACITOR
	C319	QFLA1HJ-562ZM	M CAPACITOR
	C320	QFG32AJ-223ZN	
	C321	QCVB1CM-103Y	C CAPACITOR
	C322	QEK41CM-476	E CAPACITOR
	C323	QEK61AM-336ZN	E CAPACITOR
	C324	QFV41HJ-224	TF CAPACITOR
	C501	QCVB1CM-103Y	C CAPACITOR
	C502	QEK41CM-476	E CAPACITOR
	C503	QCVB1CM-103Y	C CAPACITOR
	C504	QEK60JM-107ZM	E CAPACITOR
	C505	QCXB1CM-272Y	C.CAPACITOR
	C506	QCVB1CM-103Y	C CAPACITOR
	C507	QER41HM-225	E.CAPACITOR
	C508	QEK41CM-106	E CAPACITOR
	C509	QCVB1CM-103Y	C CAPACITOR
	C510	QEK41HM-105	E CAPACITOR
	C514	QCS11HJ-470	C CAPACITOR
	C515	QCVB1CM-103Y	C CAPACITOR
	C801	QFV41HJ-683	TF CAPACITOR
	C802	QCBB1HK-102Y	C CAPACITOR
	C803	QCVB1CM-103Y	C CAPACITOR
	C804	QCVB1CM-103Y	C CAPACITOR
	C805	QCVB1CM-103Y	C CAPACITOR
	C806	QEK61AM-107Z	E CAPACITOR
	C807	QEK60JM-107ZM	E CAPACITOR
	D101	MA165	SI DIODE
	D102	MA165	SI DIODE
	D201	MA165	SI DIODE
	D202	MA165	SI DIODE
	D301	MA165	SI DIODE
	D801	HSS104TJ	SI DIODE
	D802	MA4091(M)	ZENER DIODE
	D803	MA4051(M)	Z DIODE
	D804	HSS104TJ	SI DIODE
	D805	HSS104TJ	SI DIODE
	IC301	UPC1228HA	IC
	IC302	LA3220	IC
	IC303	UPC1330HA	IC
	IC304	HA12134A	IC
	IC501	TA8409S	IC
	IC502	TA8409S	IC
	IC503	LZ93D58	IC

REF.	PARTS NO.	PARTS NAME	REF.	PARTS NO.	PARTS NAME
L101	VQP0001-183S	INDUCTOR	R205	QRD161J-122	CARBON RESISTOR
L102	VQP0001-562S	INDUCTOR	R206	QRD161J-103	CARBON RESISTOR
L201	VQP0001-183S	INDUCTOR	R207	QRD161J-103	CARBON RESISTOR
L202	VQP0001-562S	INDUCTOR	R208	QRD161J-224	CARBON RESISTOR
L301	VQH1008-017	OSC COIL(BIAS)	R210	QRD161J-472	CARBON RESISTOR
L302	VQP0028-100Z	INDUCTOR	R211	QRD161J-153	CARBON RESISTOR
L501	VQP0028-100Z	INDUCTOR	R212	QRD161J-153	CARBON RESISTOR
Q101	UN4210	TRANSISTOR	R213	QRD161J-182	CARBON RESISTOR
Q102	2SC2001(L,K)	TRANSISTOR	R214	QRD161J-103	CARBON RESISTOR
Q103	2SC2001(L,K)	TRANSISTOR	R215	QRD161J-221	CARBON RESISTOR
Q104	UN4210	TRANSISTOR	R216	QRD161J-182	CARBON RESISTOR
Q105	UN4210	TRANSISTOR	R217	QRD161J-392	CARBON RESISTOR
Q201	UN4210	TRANSISTOR	R218	QRD161J-392	CARBON RESISTOR
Q203	2SC2001(L,K)	TRANSISTOR	R219	QRD161J-682	CARBON RESISTOR
Q204	UN4210	TRANSISTOR	R221	QRD161J-472	CARBON RESISTOR
Q205	UN4210	TRANSISTOR	R222	QRD161J-102	CARBON RESISTOR
Q301	2SC2785(E,F)	TRANSISTOR	R224	QRD161J-221	CARBON RESISTOR
Q302	2SC2785(E,F)	TRANSISTOR	R301	QRD161J-221	CARBON RESISTOR
Q303	UN4210	TRANSISTOR	R302	QRD161J-331	CARBON RESISTOR
Q305	2SD1302(S,T)	TRANSISTOR	R303	QRD161J-473	CARBON RESISTOR
Q306	2SD1302(S,T)	TRANSISTOR	R304	QRD161J-225	CARBON RESISTOR
Q501	2SA952(L,K)	TRANSISTOR	R305	QRD161J-121	CARBON RESISTOR
Q502	UN4213	TRANSISTOR	R306	QRD161J-221	CARBON RESISTOR
Q503	2SD1302(S,T)	TRANSISTOR	R307	QRD161J-103	CARBON RESISTOR
Q504	2SD1302(S,T)	TRANSISTOR	R308	QRD161J-103	CARBON RESISTOR
Q505	2SD1302(S,T)	TRANSISTOR	R309	QRD161J-183	CARBON RESISTOR
Q506	UN411F	TRANSISTOR	R311	QRD161J-475	CARBON RESISTOR
Q507	UN4213	TRANSISTOR	R312	QRD161J-475	CARBON RESISTOR
Q801	2SA1359(OY)	TRANSISTOR	R313	QRZ0077-150X	F.RES.I.M
Q802	2SC2785(E,F)	TRANSISTOR	R314	QRD161J-273	CARBON RESISTOR
Q803	UN4211	TRANSISTOR	R315	QRD161J-273	CARBON RESISTOR
Q804	2SC2785(E,F)	TRANSISTOR	R316	QRD161J-3R3	CARBON RESISTOR
Q805	2SA952(L,K)	TRANSISTOR	R317	QRD161J-221	CARBON RESISTOR
Q806	2SC2785(E,F)	TRANSISTOR	R318	QRD161J-103	CARBON RESISTOR
Q807	UN4213	TRANSISTOR	R319	QRD161J-101	CARBON RESISTOR
R101	QRD161J-680	CARBON RESISTOR	R320	QRD161J-222	CARBON RESISTOR
R102	QRD161J-334	CARBON RESISTOR	R321	QRD161J-104	CARBON RESISTOR
R103	QRD161J-682	CARBON RESISTOR	R501	QRD161J-102	CARBON RESISTOR
R104	QRD161J-562	CARBON RESISTOR	R502	QRD161J-123	CARBON RESISTOR
R105	QRD161J-122	CARBON RESISTOR	R503	QRD161J-682	CARBON RESISTOR
R106	QRD161J-103	CARBON RESISTOR	R504	QRD161J-684	CARBON RESISTOR
R107	QRD161J-103	CARBON RESISTOR	R505	QRD161J-472	CARBON RESISTOR
R108	QRD161J-224	CARBON RESISTOR	R507	QRD143J-151S	CARBON RESISTOR
R110	QRD161J-472	CARBON RESISTOR	R508	QRD161J-472	CARBON RESISTOR
R111	QRD161J-153	CARBON RESISTOR	R509	QRD161J-221	CARBON RESISTOR
R112	QRD161J-153	CARBON RESISTOR	R510	QRD161J-472	CARBON RESISTOR
R113	QRD161J-182	CARBON RESISTOR	R511	QRD161J-472	CARBON RESISTOR
R114	QRD161J-103	CARBON RESISTOR	R512	QRD161J-103	CARBON RESISTOR
R115	QRD161J-221	CARBON RESISTOR	R513	QRD161J-221	CARBON RESISTOR
R116	QRD161J-182	CARBON RESISTOR	R514	QRD161J-103	CARBON RESISTOR
R117	QRD161J-392	CARBON RESISTOR	R515	QRD161J-223	CARBON RESISTOR
R118	QRD161J-392	CARBON RESISTOR	R516	QRD161J-183	CARBON RESISTOR
R119	QRD161J-682	CARBON RESISTOR	R517	QRD161J-563	CARBON RESISTOR
R121	QRD161J-472	CARBON RESISTOR	R518	QRD161J-224	CARBON RESISTOR
R122	QRD161J-102	CARBON RESISTOR	R519	QRD161J-103	CARBON RESISTOR
R124	QRD161J-221	CARBON RESISTOR	R520	QRD161J-103	CARBON RESISTOR
R201	QRD161J-680	CARBON RESISTOR	R521	QRD161J-472	CARBON RESISTOR
R202	QRD161J-334	CARBON RESISTOR	R522	QRD161J-392	CARBON RESISTOR
R203	QRD161J-682	CARBON RESISTOR	R523	QRD161J-471	CARBON RESISTOR
R204	QRD161J-562	CARBON RESISTOR	R524	QRD161J-471	CARBON RESISTOR

■ Deck Function·Operation Key P.C.Board  
: Drawing No.VMW2317

REF.	PARTS NO.	PARTS NAME
R525	QRD161J-471	CARBON RESISTOR
R526	QRD161J-471	CARBON RESISTOR
R801	QRD161J-391	CARBON RESISTOR
R802	QRD161J-472	CARBON RESISTOR
R803	QRD161J-224	CARBON RESISTOR
R804	QRD161J-102	CARBON RESISTOR
R805	QRD161J-102	CARBON RESISTOR
R806	QRD161J-562	CARBON RESISTOR
R807	QRD161J-222	CARBON RESISTOR
R808	QRD161J-102	CARBON RESISTOR
R809	QRZ0077-4R7X	F. RESISTOR
R810	QRD161J-121	CARBON RESISTOR
R811	QRD161J-102	CARBON RESISTOR
R812	QRD161J-331	CARBON RESISTOR
R813	QRD161J-564	CARBON RESISTOR
VR101	QVPA603-502AZM	SEMI.V.RESISTOR
VR102	QVPA603-502AZM	SEMI.V.RESISTOR
VR103	QVPA603-104M	SEMI.V.RESISTOR
VR201	QVPA603-502AZM	SEMI.V.RESISTOR
VR202	QVPA603-502AZM	SEMI.V.RESISTOR
VR203	QVPA603-104M	SEMI.V.RESISTOR
VR501	QVPA603-103AZM	SEMI.V.RESISTOR

REF.	PARTS NO.	PARTS NAME
CN601	VMC0156-P03	CONNECTOR
CN602	VMC0156-P12	CONNECTOR
CN603	VMC0156-P12	CONNECTOR
CN604	VMC0156-P10	CONNECTOR
CN605	TYCLL-008	CONNECTOR
CN606	TYCHL-008	CONNECTOR
CN607	VMC0064-002	CONNECTOR
CN609	VMC0155-R09	CONNECTOR
C601	VCE0061-108	E CAPACITOR
C602	QCF11HP-223	C CAPACITOR
C603	QCF11HP-223	C CAPACITOR
C604	QCF11HP-223	C CAPACITOR
C605	QCF11HP-223	C CAPACITOR
C606	QFV41HJ-683	TF CAPACITOR
C607	QFN41HJ-222	M CAPACITOR
D601	11E1	SI DIODE
D602	11E1	SI DIODE
D603	11E1	SI DIODE
D604	11E1	SI DIODE
J353	VMJ4024-001	JACK
Q601	UN411F	TRANSISTOR
Q602	UN4213	TRANSISTOR
Q603	2SC945(P,Q)	TRANSISTOR
Q604	2SC945(P,Q)	TRANSISTOR
Q605	2SA992(E,F)	TRANSISTOR
R158	QRD161J-121	CARBON RESISTOR
R258	QRD161J-121	CARBON RESISTOR
R605	QRD161J-122	CARBON RESISTOR
R606	QRD161J-122	CARBON RESISTOR
R607	QRD161J-182	CARBON RESISTOR
R608	QRD161J-222	CARBON RESISTOR
R609	QRD161J-272	CARBON RESISTOR
R610	QRD161J-392	CARBON RESISTOR
R611	QRD161J-562	CARBON RESISTOR
R612	QRD161J-822	CARBON RESISTOR
R613	QRD161J-183	CARBON RESISTOR
R614	QRD161J-331	CARBON RESISTOR
R615	QRD161J-331	CARBON RESISTOR
R616	QRD161J-331	CARBON RESISTOR
R621	QRD161J-821	CARBON RESISTOR
R622	QRD161J-102	CARBON RESISTOR
R623	QRD161J-102	CARBON RESISTOR
R624	QRD161J-102	CARBON RESISTOR
R625	QRD161J-102	CARBON RESISTOR
R626	QRD161J-102	CARBON RESISTOR
R627	QRD161J-221	CARBON RESISTOR
R628	QRD161J-473	CARBON RESISTOR
R629	QRD161J-682	CARBON RESISTOR
R630	QRD161J-102	CARBON RESISTOR
R631	QRD161J-561	CARBON RESISTOR
S601	QSP4H11-V05Z	TAUT SWITCH
S602	QSP4H11-V05Z	TAUT SWITCH
S603	QSP4H11-V05Z	TAUT SWITCH
S604	QSP4H11-V05Z	TAUT SWITCH
S605	QSP4H11-V05Z	TAUT SWITCH
S606	QSP4H11-V05Z	TAUT SWITCH
S607	QSP4H11-V05Z	TAUT SWITCH
S608	QSP4H11-V05Z	TAUT SWITCH
S609	QSP4H11-V05Z	TAUT SWITCH
S610	QSP4H11-V05Z	TAUT SWITCH

## ■ Reel Motor P.C.Board : Drawing No.VMW3272

REF	PARTS NO.	PARTS NAME
CN1	VMC0107-R08	SOCKET
C1	QETB1CM-336N	E. CAPACITOR
R1	QRD161J-102	C. RESISTOR

## ■ Cam Switch P.C.Board : Drawing No.VMW3273

REF	PARTS NO.	PARTS NAME
CN2	VMC0107-R07	SOCKET
	VKS3495-00A	CAM SWITCH UNIT
	DN6851A	HOLL IC
	VKS3487-001	IC HOLDER
	VKZ4611-001	EARTH PIN

■ Power Supply Power Amplifier P.C.Board  
: Drawing No. VMW1249A-B

REF.	PARTS NO.	PARTS NAME
Q252	2SD1302(S,T)	TRANSISTOR
CN351	VMC0156-S12	CONNECTOR
CN352	VMC0156-P12	CONNECTOR
CN355	VMC0155-005	CONNECTOR
CN951	VMC0156-P08	CONNECTOR
CN952	VMC0156-S08	CONNECTOR
CN953	VMC0156-S08	CONNECTOR
CN954	VMC0156-P08	CONNECTOR
C151	QETC1EM-476ZM	E.CAPACITOR
C152	QCBB1HK-471Y	C CAPACITOR
C153	QCC11EM-104	C CAPACITOR
C154	QET41CR-228	E CAPACITOR
C155	QFV41HJ-224	TF CAPACITOR
C251	QETC1EM-476ZM	E.CAPACITOR
C252	QCBB1HK-471Y	C CAPACITOR
C253	QCC11EM-104	C CAPACITOR
C254	QET41CR-228	E CAPACITOR
C255	QFV41HJ-224	TF CAPACITOR
C351	QFV71HJ-393ZM	FILM CAPACITOR
C352	QFV71HJ-393ZM	FILM CAPACITOR
C353	QETC1EM-107ZM	E.CAPACITOR
C354	QETC1EM-106ZM	E.CAPACITOR
C355	QETB1VM-338N	E.CAPACITOR
C356	QCC11EM-683	C CAPACITOR
C357	QETB1VM-227N	E CAPACITOR
C901	QETB1VM-227N	E CAPACITOR
C902	QFV41HJ-683	TF CAPACITOR
C951	QFV41HJ-683	TF CAPACITOR
C952	QFV41HJ-683	TF CAPACITOR
C953	QFV41HJ-683	TF CAPACITOR
C954	QFV41HJ-683	TF CAPACITOR
D351	MA700	ZENER DIODE
D352	MA700	ZENER DIODE
D353	HSS104TJ	SI DIODE
D354	HSS104TJ	SI DIODE

REF.	PARTS NO.	PARTS NAME
D902	11E1	SI DIODE
D951	S4VB10-4002	SI DIODE
IC351	TA8216H(JVC)	IC
J351	EMB90YY-401A	SPK.TERMINAL
J352	EMV7127-017	CONNECTOR
Q151	2SD1302(S,T)	TRANSISTOR
Q152	2SD1302(S,T)	TRANSISTOR
Q252	2SD1302(S,T)	TRANSISTOR
Q351	UN4213TA	TRANSISTOR
Q901	2SC2785(E,F)	TRANSISTOR
Q902	2SA952(L,K)	TRANSISTOR
RY951	VSK1D24-111	RELAY
R150	QRD161J-471	CARBON RESISTOR
R151	QRD161J-102	CARBON RESISTOR
R152	QRD161J-472	CARBON RESISTOR
R153	QRD161J-561	CARBON RESISTOR
R154	QRD161J-272	CARBON RESISTOR
R155	QRD161J-475	CARBON RESISTOR
R156	QRD161J-475	CARBON RESISTOR
R157	QRD161J-2R2	CARBON RESISTOR
R250	QRD161J-471	CARBON RESISTOR
R251	QRD161J-102	CARBON RESISTOR
R252	QRD161J-472	CARBON RESISTOR
R253	QRD161J-561	CARBON RESISTOR
R254	QRD161J-272	CARBON RESISTOR
R255	QRD161J-475	CARBON RESISTOR
R256	QRD161J-475	CARBON RESISTOR
R257	QRD161J-2R2	CARBON RESISTOR
R352	QRD161J-472	CARBON RESISTOR
R353	QRD161J-475	CARBON RESISTOR
R901	QRD161J-473	CARBON RESISTOR
R902	QRD121J-102	CARBON RESISTOR
R903	QRD161J-104	CARBON RESISTOR
R904	QRD161J-103	CARBON RESISTOR
R905	QRD161J-223	CARBON RESISTOR
R906	QRD161J-223	CARBON RESISTOR

**JVC**

**VICTOR COMPANY OF JAPAN, LIMITED.  
AUDIO PRODUCTS DIVISION MAEBASHI PLANT 10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan**